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No. 3019
VOL. CXXVII

DECEMBER 18, 1937

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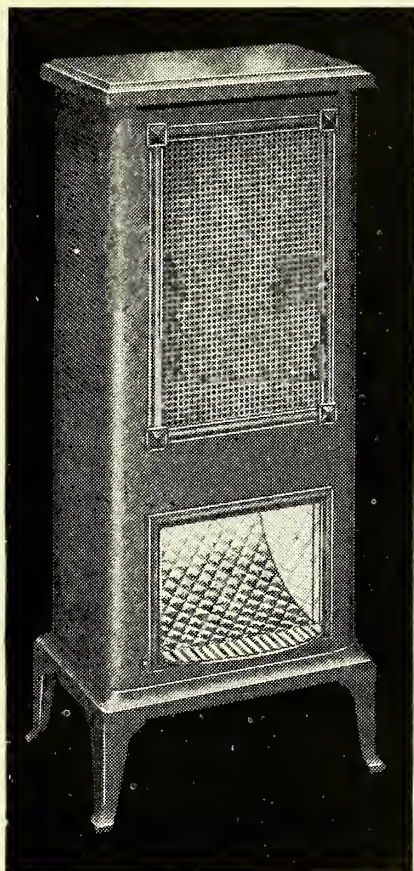
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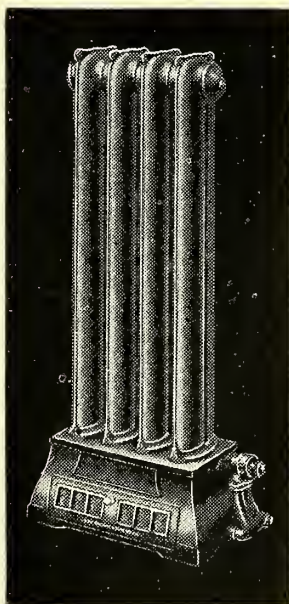
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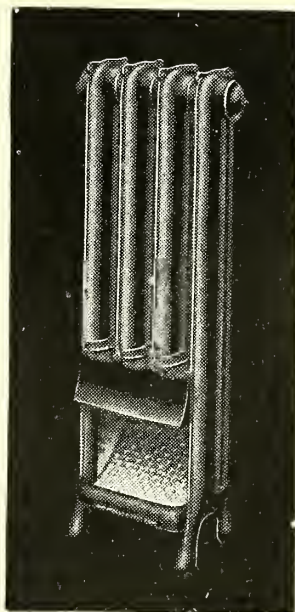


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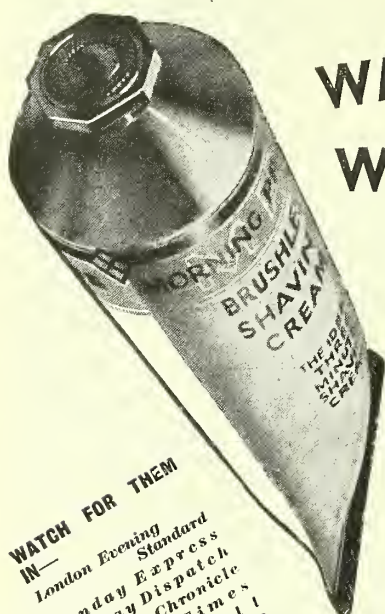
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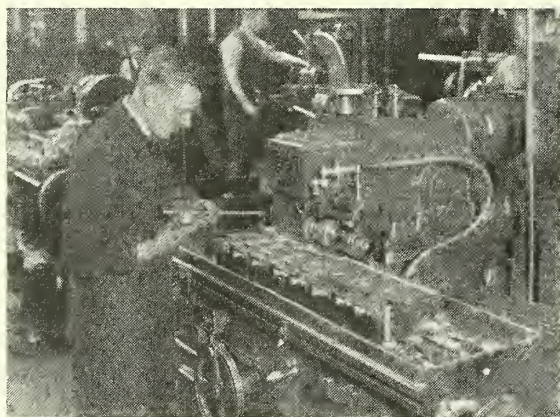
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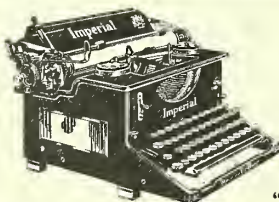
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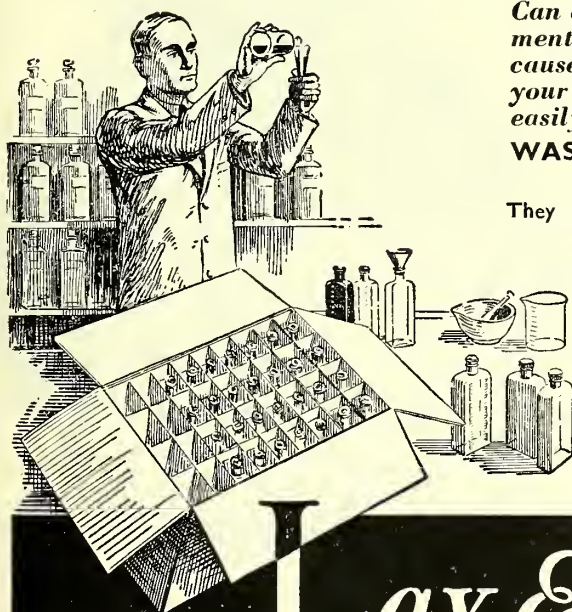
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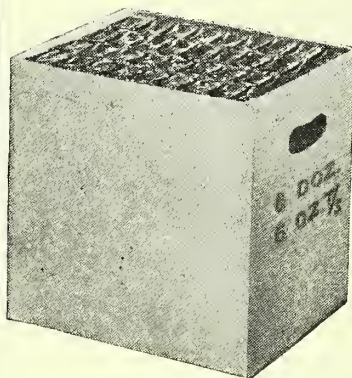
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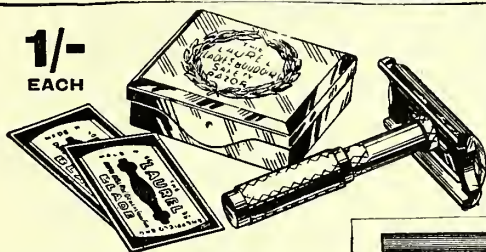
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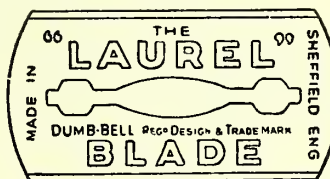
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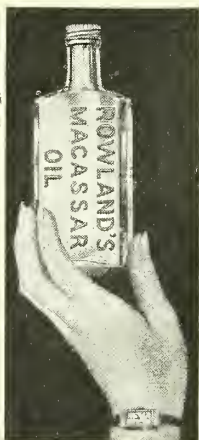
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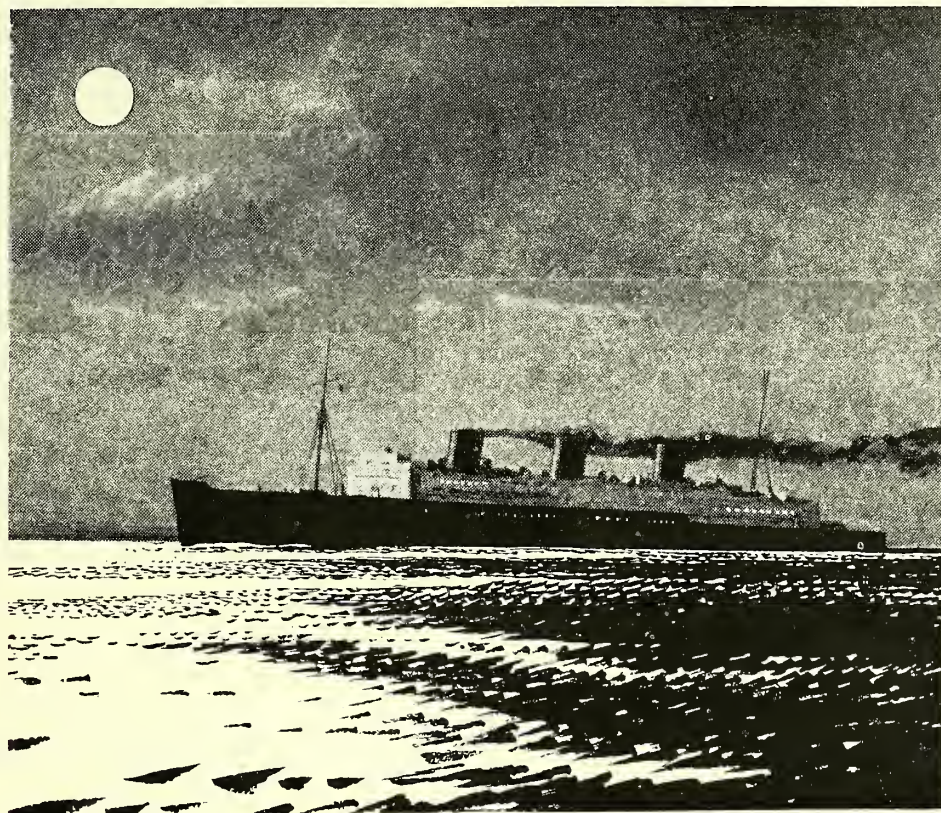
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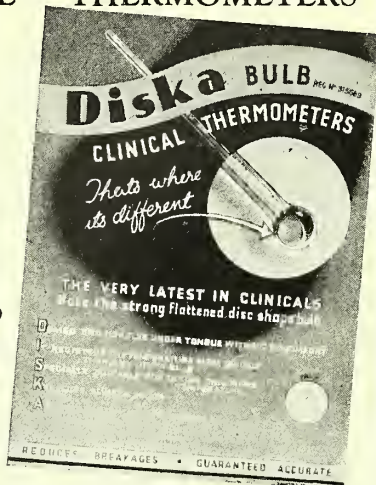
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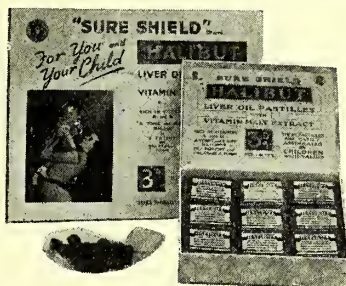
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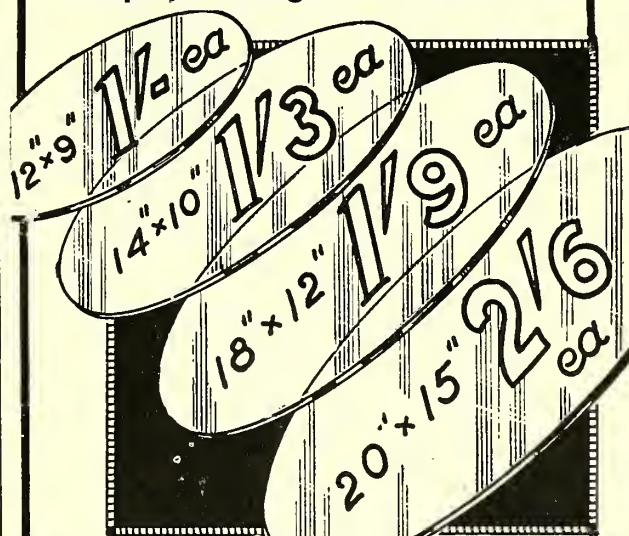
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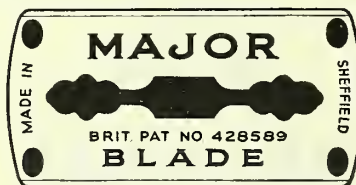
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News of the Week

Import Duty on Pepper Reduced

Under the Import Duties (Substitution) (No. 1) Order, dated December 13, 1937, the Treasury has reduced the import duty on PEPPERCORNS, the fruit of piper nigrum, unground, from 7s. 3d. per cwt. to 4s. 6d. per cwt. The reduced rate of duty came into operation on December 15, 1937.

Proprietary Articles Trade Association

We are advised by the Proprietary Articles Trade Association, 43 Gordon Square, London, W.C.1, of the following additions to, alterations in and deletions from the Protected List. The retail and wholesale selling prices quoted below are the minimum selling prices fixed by the manufacturers and protected by the P.A.T.A.:—

ADDITIONS.—Crystal Products Co., Ltd.: Outdoor Girl Preparations, Lipsticks, magenta and ivory swivel cases, 1s., 8s. 4d. doz.; Four Purpose Cream, 1s. 3d., 10s. doz.; Perfume (New Scent), on cards, 6d., 4s. 6d. doz.; Perfume (New Scent), in carton, 1s. 3d., 10s. 3d. doz.; Perfume (New Scent), in carton, 2s. 16s. doz., subject to usual trade terms. Gilmont Products, Ltd., G.P. Ointment, new size, 2s. 6d., 20s. doz. tubes. Glaxo Laboratories, Ltd.: Barium Meal, G.L., 6 oz., 1s. 6d., 13s. 6d. doz.; Barium Meal, G.L., 6 lb., 12s. 6d., 112s. 6d. doz.; Examen Liver Extract, G.L., 3 x 2 cc., 13s. 4d., 120s. doz.; 6 x 2 cc., 25s., 225s.; Glucose-D, new 3-lb. size, 4s. 6d., 40s. 6d.; Minadex (Syrup), new 12 oz. size, 4s. 6d., 40s. 6d.; Colloidal Calcium with Ostelin, new size, boxes of 12, 1 cc. ampoules, 8s. 6d., 76s. 6d. Leslie Martyn, Ltd.: Pylkure Treatment, 5s., 45s. doz.; Blood Purifying Tablets, 3s., 27s. doz.; Blood Purifying Tablets, 5s., 45s. doz.; Blood Pressure Tablets, 3s., 27s. doz.; Blood Pressure Tablets, 5s., 45s. doz. Modern Health Products, Ltd.: Soovy (Mineral-Rich Broth Concentrate), 1s. 9d., 15s. 9d. doz.; Soovy (Mineral-Rich Broth Concentrate), 3s. 3d., 29s. doz.; Soovy (Mineral-Rich Broth Concentrate), 6s., 54s. doz. Solport Bros., Ltd.: Portia Centre Court Tennis Shade with Hair Net, D.462, 1s. 6d., 12s. doz.; 6 doz., 11s. 9d. doz.; less 3½ per cent. cash in seven days or 2½ per cent. monthly settlement.

ALTERATIONS.—J. L. Bragg, Ltd.: New prices, December 18: Bragg's Charcoal Biscuits, 1s. 9d., 16s. 9d. doz.; Bragg's Charcoal Biscuits, 3s. 3d., 30s. 9d.; Bragg's Lozenges and Tablets, 1s. 6d., 14s. 3d. Clay & Abraham, Ltd.: The Pen brand Series: Quantity terms reduction: 6d. size, 4s. 6d. doz., 3 doz., carriage paid, 4s. Crystal Products Co., Ltd.: Outdoor Girl Olive Oil Beauty Preparations, Olive Oil Face Powder, 1s. 6d., 12s. doz.; Powder Cream, jars only, 1s. 6d., 12s. doz.; Vanishing Cream, Cleansing Cream, Olive Oil Cream, Cold Cream, all jars only, 1s. 6d., 12s. doz. D. & W. Gibbs, Ltd.: Reduced Prices (Irish Free State): Cold Cream Soap, toilet size, 6d., 55s. 7d. gross; less 1½ per cent. cash by 14th of the month following delivery. Glaxo Laboratories, Ltd.: Adexolin Capsules, 25's, 2s. 6d., 22s. 6d. doz.; Adexolin Capsules, 100's, 7s. 6d., 67s. 6d. doz. Leslie Martyn, Ltd.:

Abdoloids (Corpulency), 5s., 45s. doz.; Martolia Rejuvenators, 3s., 27s. doz.; Blanchards Female Pills, 3s., 27s. doz.; Davallia Hair Destroyer, 4s. 6d., 40s. 6d. Sparklets, Ltd.: Hygienators, B Type, 30s., 22s. 6d. each, less 2½ per cent. monthly account. Wright Layman & Umney, Ltd.: Lysol, 4 oz., 1s., 6s. doz.; ½ gal., 7s. 6d., 48s. doz., less 2½ per cent. monthly account.

DELETIONS.—Leslie Martyn, Ltd.: 5s. size Martolia Rejuvenator; 2s. 6d. and 4s. 6d. sizes Martolia Hair Invigorator; 5s. size Blanchard's Female Pills. Tamar Indien Grillon, Ltd.: Tamar Indien Digestive Pastilles.

Bolton

Mr. H. N. Linstead, secretary of the Pharmaceutical Society, addressed a meeting of the Bolton Branch of the Society on December 9 on "Some Problems of the Pharmacist." Declaring that it was possible for chemists to co-operate in the national fitness campaign, the speaker said they had interviewed the Ministry of Health, pointing out that the health service provided by the chemist had been omitted from poster advertising of the campaign, and had been told that the Ministry was endeavouring to make the public aware of health services they were not already utilising. One of the greatest problems of the chemist during the last few years had been the gradual growth of legislation affecting him. He personally felt that the proposals to amend medicine-stamp duty were only sleeping, and he would be surprised if they were not introduced, in modified form, in the next Budget. They must have their machinery ready to combat it, for the next time the Government would not make a mistake. Speaking on the problem of remuneration, Mr. Linstead said the P.A.T.A. had done a tremendous amount to get prices on a proper level. Wholesale prices were going up, and chemists must consider passing on that increase to the public. The public would not be surprised. Regarding remuneration under the National Health Insurance Act, they must not allow "fireworks" to divert them from a proper appreciation of what had happened. The Society had no intention of taking over the work from the N.P.U., but the Society and the Union had agreed to act jointly in the matter and were in accord with one another. Competition was the greatest problem chemists had to face, said Mr. Linstead, and he quoted figures to show that there had been an increase of 3,000 chemists' shops in the last seven years. On the Register there was now one to every 2,000 population, against one to 3,000 in 1911, and they had come to the decision that the only way to check the influx was by increasing the stringency of their examinations. The speaker concluded by commending the Society's scheme of co-operative advertising.

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In the course of the discussion, Mr. Bissell asked if it was possible to have practical examinations in Manchester. Mr. Linstead replied that two things precluded that: (1) The secrecy of the practical examinations must be jealously guarded, and (2) the painstaking care taken in the analysis of preparations. In answer to another question, Mr. Linstead said they thought it better to control the men coming into pharmacy from the universities rather than let them grow up on the flank. Mr. Rothwell declared that the 4.2d. fee received by the chemist under the National Health Insurance was disgraceful remuneration for qualified men, and he felt that some contribution should come from the friendly societies. Mr. J. S. Walmsley presided. Prior to the address Mr. Linstead presented prizes to the successful local students.

Carlisle

The East Cumberland Branch of the Pharmaceutical Society met at the County Hotel, Carlisle recently. Mr. W. S. Howells (a member of Council) was the speaker. The chairman (Mr. J. Sharp) introduced Mr. Howells, who declared that the outlook for pharmacy was decidedly brighter.

Mr. Sharp did not think that remuneration and prospects were keeping pace with the present standard of education, with the result that entrants were not coming forward. Mr. D. Hunter asked Mr. Howells if he did not think that there were too many passes; should not pharmacists be limited to, say, one to every 3,000 population? Mr. Howells replied that his figure of 1 to 2,000 was given in support of the contention that this number would be enough. Limitation would meet with opposition from the limited companies. During the slump the dearth of vacancies had resulted in the opening of more shops in suburban areas, thereby upsetting established businesses, but, with improved conditions, these men were gradually being absorbed again. He did not think that the policy would encourage unqualified labour, considering the present greater need of supervision. Mr. T. M. Ridley, who proposed a vote of thanks, commented on the practice of pharmacists running a pharmacy and also a drug store—sometimes under their wife's name. Should they not be brought before the Statutory Committee? Mr. Howells replied that the Statutory Committee was more concerned with personal conduct—they might be brought before the Committee following a police court conviction. He promised to raise this point at headquarters, and pointed out that information on such matters should be submitted by branches.

Ealing

A practical demonstration of "The Uses of Crepe Paper in Window Display" was given at a meeting of the West Middlesex Branch of the Pharmaceutical Society at Ealing recently. Mr. F. G. Wells (a member of the Council) presiding. The Branch had supplied a suitable window frame sufficiently large for draping in various ways. The demonstration commenced with a talk by Mr. F. G. Miller, followed by the installation of a background by Mr. J. C. Jennings (both from Dennison-Victor Co., Ltd.). The audience were invited to ask questions on the procedure or on any difficulties experienced. Instructions for cutting folds of crepe, making tubes, pleating and cross-pleating, ordinary and inverted draping, waves and fringes were given. Several members later availed themselves of the opportunity to repeat the manipulation. A vote of thanks to Messrs. Miller and Jennings and to the company was proposed by Mr. W. Stephenson.

Liverpool

A meeting of the Waterloo, Seaforth and Crosby Pharmacists' Association was held at Jeffery's Café, Waterloo, on December 2, the president (Mr. J. Allen Jones) in the chair. Mr. Rider congratulated the president on his election to the Crosby Borough Council and subsequent election to the aldermanic bench. The procedure for obtaining an Early Closing Order was outlined, and it was agreed to obtain further information from a neighbouring borough, where an Early Closing Order for pharmacies is in operation, and to discuss the question at a later date. The social committee was re-elected, with power to arrange a social function early in 1938. Hours of opening over the Christmas and New Year holidays were fixed, and the secretary was instructed to have notices of these hours printed and distributed to all local pharmacies. The secretary, by a unanimous vote, was instructed to send a strong letter of protest to a firm which, it was alleged, had promised to

restrict the sale of one series of its products to pharmacists that was now obtainable from grocers and a firm of bakers. A long discussion, in which several members took part, showed that there were many unsatisfactory features of the present N.H.I. contract, and the meeting closed with the expressed hope that the National Pharmaceutical Union would accept all the help the Pharmaceutical Society offered in its negotiations with the Ministry of Health for a new contract.

On December 8 the Liverpool Chemists' Association heard an address on the Society's new building, illustrated by lantern slides, given by Mr. H. N. Linstead, O.B.E., secretary and registrar of the Society. Mr. John Rae (president of the Association) was in the chair. Prior to the address, the following resolution was moved from the chair:—"The Liverpool Chemists' Association and the Liverpool Branch of the Pharmaceutical Society congratulate the Council of the Society on its action in offering the N.P.U. effective and practical support in their efforts to obtain more equitable terms for N.H.I. dispensing." The resolution was carried.

Mr. Linstead said the present building was originally a brick building, and when Nash first came to London he lodged in it and began his experiments in coating stucco on it. Dealing with the new building, he said the big question of principle they had to decide was whether they should make provision for all their facilities, and so they went into it in immense detail. The Pharmacological Laboratories were set up to do research work, and he should say that the value of them was about 50 per cent. £ s. d. and about 50 per cent. advertising value. He could assure them that they got a tremendous amount more than £12,500 advertising value out of those laboratories.

Should they continue the School of Pharmacy? There were two points of view. First, that the Society should feed the local schools of pharmacy and not attempt to draw from these to strengthen the central school. They found that in this country pharmaceutical education was very young indeed. If they went to France or Germany they would find that their schools of pharmacy were about 400 years old, while in this country they only really started after the war. The Society had the statutory responsibility of examining students, and they thought that if they had to keep laboratories for that purpose it was no use leaving them out of use for, say, nine months of the year. Then they had to decide whether they should put the Pharmacological Laboratories in the suburbs rather than in London. It might have been cheaper in some respects, but there were many other things which the Council had to take into consideration, such as the fact that it would necessitate a separate office staff, separate offices and so forth. He kept his eye very carefully on the financial side of the problem, and he was satisfied that the Society could, out of its resources, meet the financial obligations involved in this new building. Whilst paying tribute to the foresight of their predecessors in many respects, they had only left a redemption balance of £17,000, and that had hampered them. He felt there were many sources from which they might expect help if they could show that they were erecting a building which was worthy of them. He repudiated the suggestion that it was a "palace."

In the ensuing discussion Mr. G. L. Clubb remarked that Mr. Linstead had said they raised £100,000. Could he tell them how they proposed to raise the remainder? Mr. Linstead: The £100,000 was the amount we had to borrow. We have the remainder in hand as cash. Mr. J. H. Franklin (Manchester) thanked the Liverpool Branch for inviting him to be present. Regarding the new building, he would like to point out that they were bound to get out of No. 17. Mr. W. E. Humphreys proposed a vote of thanks to the lecturer. Mr. L. Moreton Parry, seconding, said his last duty as president of the Society was to sign the contract for the Brunswick Square site, and they made a choice which had paid itself.

London

In Bow County Court, on December 10, John Knight, Ltd., soap manufacturers, Silvertown, E., sued Mr. J. Cammack, chemist and druggist, Webb's Road, S.W.11, to recover the sum of £2 5s., the balance of an account. The defendant did not appear, but sent a letter in which he offered to pay 10s. a month. The registrar gave judgment for the amount claimed, and made an order for payment at £1 a month.

A meeting of the Wimbledon and District Branch of the National Pharmaceutical Union was held at Wimbledon Town

Hall on December 7, Mr. C. J. R. Pretty in the chair. In an address, entitled "Business Matters of the Moment," Mr. J. Hearle (member of the Executive of the N.P.U.) outlined the function of the Union and its many services to the chemist. He referred particularly to the C.F. scheme, N.H.I. position, C.D.A., C.M.I., and the protection provided by the Union. A vote of thanks was proposed by Mr. Fawkes.

A smoking concert in aid of the Pharmaceutical Society's Benevolent Fund was held by the South-West London Chemists' Association at the Fountain Hotel, Tooting, on November 25. Entertainment was provided by Messrs. Rex Bembrose, Hewitt, Irvine, Kain, Jackson, Lythe, Murgatroyd and Watkins. Mrs. Tibbett accompanied on the piano, also playing a "musical switch" in a competition to guess the names of pieces played. First and second prizes in this contest were won by Mr. Begg and Mr. Garden respectively. A camera presented by Kodak, Ltd., was raffled, realising £2 6s. It was won by Mr. Shakerley. The president (Mr. E. Neville Browne) gave a brief explanation of the objects of the Benevolent Fund, and Mrs. Freke also spoke, congratulating the social secretary (Mr. Atkinson) and his committee on their successful efforts. Votes of thanks to the artists were proposed and seconded by Mr. Edgcombe and Mr. Sparks (vice-presidents).

The S.W. Metropolitan Branch of the Pharmaceutical Society played a return billiards and snooker match with Parke, Davis & Co. at the Piccadilly Billiards Club on November 27, the results being:—

BILLIARDS

| S.W. Branch | | Parke, Davis & Co. | |
|---------------|-----|--------------------|-----|
| H. G. Tibbett | 130 | v. J. Burbidge | 150 |
| J. P. James | 150 | v. L. E. Darby | 81 |
| W. Atkinson | 136 | v. F. H. Gibson | 150 |
| G. Watt | 150 | v. E. H. Lambert | 136 |
| W. H. Usher | 148 | v. G. E. Mann | 150 |
| W. Fitch | 114 | v. L. O. Smith | 150 |

SNOOKER

| | |
|--------------------------------------------|-----------------------------------|
| Tibbett and James (1st frame, 34; 2nd, 80) | v. Burbidge and Darby (52 and 48) |
| Atkinson and Watt (39 and 24) | v. Gibson and Lambert (41 and 60) |
| Usher and Fitch (27 and 49) | v. Mann and Smith (52 and 42) |

Parke, Davis & Co. thus ran out winners by eight games to four, but the aggregates showed a difference of only 31 points. An invitation is given to any London Association or business house connected with pharmacy to arrange a match with the S.W. sports secretary (Mr. W. H. Usher, 38 Parsons Green, S.W.6. Telephone: Fulham 6088).

Oldham

The annual dinner and ladies' evening of the Oldham and District Chemists' Association was held in the Central Conservative Club, Oldham, on December 7, the guests being received by the president and his wife (Mr. and Mrs. F. Newby). The guests of honour were the Mayor, the Mayoress and Major Gilbert Howcroft. Among the other guests present were Mr. Griffiths, Cheltenham; the president of the Oldham and District Chamber of Trade (Mr. J. Howell) and Mrs. Howell; the immediate past-president of the Association (Mr. W. Garside) and Mrs. Garside; the president-elect and his wife (Mr. and Mrs. R. Gorbott). Telegrams of good wishes from Mr. E. Walters, one of the founders of the Association, and Mr. Harold Miller, managing director of the United Chemists' Association, Ltd., were read by the president, who extended a welcome to the many members and representatives of other pharmaceutical associations. After dinner Mrs. Newby presented prizes for whist to:—Mrs. N. Jones, Mrs. Blackburn, Mrs. E. Heywood, Mrs. Stevens and Mrs. S. Radcliffe; Mr. J. S. Walmsley, Mr. J. C. Christie and Miss Jacques (playing as gentleman). Later a cinematograph film in colour of the coronation ceremony was shown. Dancing followed, with Mr. H. Barker acting as M.C.

Scarborough

At a meeting of the Scarborough and District Branch of the Pharmaceutical Society held on December 2 it was decided that next month the question of inviting the British Pharmaceutical Conference to visit Scarborough in about five years' time be seriously discussed. Mr. H. M. Hirst (a member of the Society's Council) addressed the meeting on "Topical Pharmaceutical Affairs." Dealing with the controversy with the National Pharmaceutical Union, he expressed his deep

regret that this had developed on the lines it had, and trusted that the incidents were now closed. He was far more concerned with maintaining the prestige of pharmacy and looking after the interests of the Society's members than with worrying over petty feuds, and had agreed to the N.P.U.'s wishes when voting. With regard to the Committee of Inquiry, Mr. Hirst expressed the hope that everybody connected with pharmacy would be represented and give all possible help. Dealing with his work on the Law Committee, he said that a vital matter at present was the strychnine question. The provisions of the Act had now been in force two years, and they were still finding pharmacists who did not realise they could not sell strychnine except in medicines. With regard to Schedule IV poisons, he emphasised the importance of pharmacists copying prescriptions into their books exactly as the doctor had written them. In reply to a question on the low pass list in examinations, he said he was convinced that the examinations were not too stringent and that candidates were not harshly treated. His long experience had shown him that the majority of his pupils confessed that any failure was mainly due to blunders on their part.

Sheffield

Sheffield Pharmacy Club held their Christmas supper and social evening recently under the chairmanship of Mr. G. K. Greenstreet. Speaking of the Club's activities, the chairman said a committee had been formed to organise lectures and a post-graduate course in first aid. He added that no first aid in these days was complete without knowledge of gas precautions. The committee had been formed because they felt that something should be done to help fellow citizens in an emergency.

Torquay

The annual meeting of the Torquay and District Branch of the National Pharmaceutical Union was held recently, Mr. W. R. Austin (vice-chairman) presiding. The following officers were elected:—*Chairman*, Mr. W. R. Austin; *Vice-Chairman*, Mr. A. M. McMannes; *Treasurer*, Mr. W. H. Wyatt; *Secretary*, to be appointed; *Committee*, Messrs. A. R. Baker, H. Holmes and A. H. Williams. The secretary's resignation was regretfully accepted, but he promised to continue until a successor was appointed. Mr. Burr was proposed as successor. The Nottingham resolution regarding the discounting clause in the N.H.I. agreement was discussed. It was agreed to support the resolution, but to act in accordance with the wishes and instructions of the N.P.U. Executive. The committee was instructed to prepare a tentative rota scheme for consideration at the next meeting. On the motion of Mr. Clarke, a vote of thanks was accorded the secretary for his services during the past five years.

Tunbridge Wells

A meeting of the Tunbridge Wells and District Branch of the Pharmaceutical Society was held recently. Mr. P. F. White presiding over a very satisfactory attendance. Mr. Godkin suggested that members should consider giving the proceeds from their weighing machines to the Benevolent Fund, considering the very low figure at which the Branch stood. He stated that he was willing to distribute boxes to those interested and volunteered to collect the money, and forward it to the treasurer of the Fund. The chairman concurred, and advised members to communicate with Mr. Godkin. Mr. H. S. Howells (a member of the Council) addressed the meeting upon "Matters Which Matter in Pharmacy." He covered most of the questions interesting chemists to-day, including dispensing by chemists only, shortage of apprentices and assistants, the new building scheme, and ethics in pharmacy. A discussion followed.

Watford

A meeting of the Watford and St. Albans Branch of the Pharmaceutical Society was held at Watford recently. The chairman (Mr. P. H. Warren) presided, and an address was given by Mr. J. C. Young (a member of the Society's Council) on "Some Conference Resolutions." Mr. Young dealt with a wide range of subjects, which included "A New Bill for Pharmacy," limitation of pharmacies, "Dispensing for the Pharmacist," and finally discounting under the National Health Insurance scheme. Considerable discussion followed,

several members expressing the hope that discounting would be entirely abolished.

Miscellaneous

IN THE COURTS.—At Kingston-on-Thames Police Court, on December 8, Ernest R. Harrison (37), electrician, was sentenced to six months' imprisonment for obtaining the sum of £8 15s. from the Clarence Drug Stores, Ltd., by means of a forged cheque: other charges were taken into consideration.

LONG SERVICE AWARDS.—At the annual dinner of the staffs of the London group of companies of Beechams Pills, Ltd., held recently, Mr. T. G. Devereux, senior representative for Phosferine, was presented with a cheque by the chairman, Mr. J. Stanley Holmes, M.P., in recognition of his fifty years' service with Phosferine (Ashton & Parsons), Ltd.—Presentations have been made to the following members of the staff of Burroughs Wellcome & Co. to commemorate the completion of twenty-one years' service: *Head Office*—Miss Hilda Mary Willoughby, a fitted dressing case; *Wellcome Chemical Works*—Miss Mabel Elizabeth Tatner, a walnut chiming clock; Miss Winifred May Turner, a gold wrist watch; Mr. James Vallins, an oak chiming clock; Miss Marie Cynthia Loveday, a canteen of cutlery; Miss May Hackman, a nest of three oak tables; Mr. Charles Edward Pestrige, a silver watch; Mr. Frederick Locke, a silver watch. The following members of the staff of the *Wellcome Physiological Research Laboratories*, at Beckenham, have also received long service awards: Mr. Frederick Cutting, a silver watch; Miss Lilian Maud Skidmore, an oak chiming clock.

Irish Notes

Shop Hours Bill

The Shops (Hours of Trading) (No. 2) Bill, 1937, which has just been issued by the Free State Minister of Industry and Commerce, is complementary to the Shop Assistants Bill (C. & D., November 27, p. 620). The public holidays set out in the Assistants' Bill are set out for shopkeepers in the second measure. The sections of the Bill of particular moment to chemists are those dealing with the weekly half-holiday and Sunday closing. According to the Second Schedule, businesses exempted from closing on weekly half-holidays include "The business of selling medicines or medical or surgical appliances when carried on by a chemist."

Section 17 of Part II of the Bill, which provides that non-exempted and non-excepted businesses must close at 1 p.m. on weekly half-holidays, says: "Where (a) any excepted business is carried on in a shop, and (b) any other business (not being an excepted business or exempted business) is carried on in such shop, nothing contained in this section shall render it unlawful for the proprietor of such shop to keep such shop open for the serving of customers at any time in any week which is in relation to such shop the weekly half-holiday, if such shop is so kept open for the purposes of any transaction connected with such excepted business and for no other purpose."

Part IV of the Bill, dealing with Sunday trading, says (Section 30): "Nothing contained in this section shall render it unlawful for the proprietor of such shop (an excepted business) to keep such shop open for the serving of customers at any time on Sunday if such shop is so kept open for the purposes of any transaction connected with such excepted business and for no other purpose." Here again, it is emphasised that the exception is made only in respect of businesses selling medicines or medical or surgical appliances "when carried on by a chemist." In no part of the Bill are the terms "pharmaceutical chemist" and "druggist" used.

Notice of the weekly-half-holiday must be displayed in all business premises and a copy of the notice furnished to the local civic guard sergeant. The hours of trading and the weekly half-holiday may be suspended by order of the Minister during certain periods of the year in holiday resorts. Bazaars and sales of work held for charitable purposes, and libraries run for philanthropic or charitable purposes, are exempt from the provisions of the Bill. A civic guard, on the written authority of an inspector, may enter shops to make such searches and investigations as he thinks fit. It will be an offence to refuse to facilitate the guard in the exercise of his duty, and all questions must be answered.

"The trade side of pharmacy in the Free State," writes a correspondent, "is gravely concerned over the recent shops

legislation introduced in the Dail governing the conditions of employment of assistants and the hours of trading. The Irish Drug Association has been giving the matter its closest attention, and both Shops Bills have been carefully examined with a view to safeguarding the interests of its members. Dr. Myles Keogh, L.P.S.I., has tabled an amendment to Section 31 of the Shop Assistants (Conditions of Employment) Bill (C. & D., November 27, p. 620) to exempt all proprietors of shops carrying on business under the Pharmacy Acts from its provisions. This section provides that where an assistant works for more than four hours on a Sunday he must be given a holiday of a whole day during the week, and where an assistant works for any period below four hours a half-holiday. These 'compensatory' holidays are in addition to the usual weekly half-holiday. Many Dublin chemists say that if this section is enforced they will not open their pharmacies at all on Sundays. At present pharmacists open for two hours on Sundays. The exemption in the Shops (Hours of Trading) Bill which prescribes that they can only remain open on half-days and Sundays for 'the business of selling medicines or medical or surgical appliances' is a feature of this measure will also be strongly opposed. To open under the restrictions the Bill proposes, it is contended, would be an entirely uneconomic proposition. The position, it is further pointed out, would be particularly hopeless in the case of small towns in the country and along the seaboard. People in outlying parts travel miles to these small towns to attend to their religious duties, and avail of the occasion to do much of their shopping after the service is over. For chemists in such areas Sunday is frequently one of the best trading days of the week."

Northern Ireland Chemists' Benevolent Fund

A meeting of the Belfast ladies' social committee was held on December 8 at the residence of Mrs. W. Martin, Linden Gardens. The following were present: Mrs F. Storey (chairman), Mrs. J. A. Gregor, Mrs. C. Abernethy, Mrs. W. Martin, Miss Barry, M.Sc., Miss Forrest, Ph.C., Miss Murray, Ph.C., Miss Robinson, Ph.C., and Miss Laverty, Ph.C. (secretary). Mrs. Storey, commenting on the success of the recent dance, said they were in a position to hand over to the Benevolent Fund £40, bringing their total contributions to the Fund to £134. The following subscriptions to the dance fund had been received: £2 2s. from Mr. W. B. Douglas and ros. from Mr. M. A. Whinney. She had been chairman for close on five years, first of the local ladies' conference committee and later of the ladies' social committee. She was sorry to have to leave them, and suggested they should appoint a vice-chairman to assist the chairman. She moved that Miss Laverty be appointed *Chairman* and Mrs. McGregor *Vice-Chairman*. This was seconded and agreed to unanimously. Miss Forrest was appointed *Treasurer*; Miss Crawford *Secretary*; and Miss Barry *Assistant Secretary*. It was also agreed that a number of lady pharmacists be co-opted to the committee.

Mrs. C. Abernethy, in moving a hearty vote of thanks to Mrs. Storey, said they all knew she wanted to retire some time ago and they all pressed her to remain in the chair. They succeeded in getting her to remain till after the dance. On behalf of the committee she presented Mrs. Storey with a week-end case as a mark of their appreciation. Mrs. Storey, in acknowledgment, said she was completely taken by surprise. She wished the new officers good luck and success.

Dublin

Mr. Joseph F. Kennedy, secretary to the Court of Medical Directors, Apothecaries' Hall of Ireland, 95 Merrion Square, Dublin, has been recently appointed sole technical representative to the Irish Free State medical profession, and also sole distributor, for E. Tosse & Co., Ltd., Hamburg, Germany.

The first dance organised for the benefit of the Benevolent Fund of the Pharmaceutical Society of Ireland was held at the Aberdeen Hall of the Gresham Hotel, Dublin, on December 6. The programme included Irish dances. During the night several spot prizes were awarded, Mr. R. H. Davis and his partner being amongst the winners. A Christmas hamper was raffled, the lucky winner being Mr. R. S. Flood, Terenure, Mrs. P. C. Cahill making the presentation.

The State was represented by the Minister for Finance (Mr. Sean McEntee), while Dublin's Lord Mayor (Alderman Alfred Byrne, T.D.) was present, and the North sent a contingent headed by Mr. Fred Storey, Belfast, and Mrs. Storey.

Representatives of the home Society present included Mr. B. P. Hickey (president); Mr. P. C. Cahill (vice-president) and Mrs. Cahill; and Messrs. J. A. O'Rourke, P. Brooke-Kelly, J. K. Whelan, Mullingar; James J. Kerr (registrar), M. J. Parkes and Miss F. M. Flood. Among the Irish Drug Association representatives present were Mr. P. A. Brady (president) and Mrs. Brady; Mr. Robert Kidney (secretary); Mr. Brendan Smith and party; and Mr. Lyall G. Smith and party. The manufacturing and wholesale representatives in evidence were Mr. A. D. Davidson (May Roberts (Ireland), Ltd.); Messrs. S. T. McAulay and B. McNamara (Irish Pharmaceuticals, Ltd.); Mr. John Holland (P. C. Cahill & Co., Ltd.); Messrs. W. R. Suche and T. E. Whelan (Evans Sons Lescher & Webb, Ltd.); Mr. R. H. Davis (Kodak, Ltd.); Mr. W. F. M. Keys (Coty Ltd.), Mr. A. W. Hughes (St. Dalmas (Ireland), Ltd.), and Mr. F. H. Steele (Rice, Steele & Co.). The attendance also included Dr. C. A. Macken, Mr. Joseph O'Reilly, Ph.C., Dr. John Shiel, Mr. D. J. Nugent, Ph.C., Miss D. Ferguson, Mrs. Suche, Mrs. Holland, Mr. and Mrs. Peter Curry, Mr. and Mrs. Eamonn Quinn, Messrs. T. Larkin, Ph.C., Basil Clancy, J. Brown, the Misses M. O'Neill, B. Mulligan, M. Clancy, M. Moynihan, E. McQuillan, Buffini, Mr. and Mrs. R. S. Flood, Messrs. A. F. Roche, Ph.C., W. G. Smyth and party, H. P. Corrigan, Ph.C., F. X. Meagher, Ph.C., Mr. R. Whelan, Ph.C., Galway, J. J. McNally, Ph.C., P. F. McAuliffe, Ph.C., D. J. Reddy, Ph.C., and T. J. Gleeson, Ph.C., and Miss U. Hyland and party.

The Committee responsible for organising the dance run in aid of the Benevolent Fund of the Pharmaceutical Society of Ireland desire to thank the following, who subscribed towards the expenses of the dance:—Mr. F. X. Meagher, Dublin (£5 5s.); Irish Chemists' Golfing Society (£2); Boileau & Boyd, Ltd., Dublin; Mr. T. H. Fahy (Evans & Co., Stephens Green, Dublin); Mr. P. S. Flynn, Dublin; Mr. Francis J. McMahon, Blackrock, co. Dublin; Mr. Jas. Fleming, Athlone; Mr. F. T. Smith, Terenure; Mr. S. Wilson, Ranelagh (£1 1s. each); Mr. W. K. Burke, Roscrea (£1); Mr. A. Nelson Cole, Youghal (10s.); Mr. Robt. Bates, Drumcondra Road, Dublin (10s.); Mr. J. F. O'Hara, Trim (10s. 6d.); Miss Irene Storey, Donnybrook (5s.); Mr. T. A. Long, Ranelagh (2s. 6d.).

The Committee consisted of Mr. G. O'Neill (chairman); Miss K. Fogarty (treasurer), Messrs. C. A. Collis and Brendan Smith (secretaries) and F. J. Roche (M.C.); the Misses P. Flynn, M. C. Fox, K. Deery, P. Morris and M. E. Malone; and Messrs. B. P. Hickey, P. C. Cahill, M. Nicell, C. Staunton, T. B. O'Sullivan, T. Larkin and J. J. Kerr.

Scottish Notes

Dundee

It is announced that Professor Alexander McKenzie, Ph.D., D.Sc., is to retire in September 1938 from the chair of Chemistry in University College, Dundee, to which he was appointed in 1913.

The annual whist drive, dinner and dance of the Dundee and East and Central Scottish Branch of the Pharmaceutical Society and the Perthshire Chemists' Association was held in the Station Hotel, Perth, on November 24. There were 120 present, fifty having travelled by bus and car from Dundee. Mrs. Farquhar, Perth, presented the whist prizes to:—Miss Webster, Miss H. B. Robertson, Miss C. Brough, Mrs. C. Smith (consolation prize), Mr. H. Napier, Mr. J. Anderson, Mr. Bogie, Mr. Keillor (consolation prize); and to Mr. and Mrs. MacConnachie, winners of the spot waltz. Mr. W. Davidson, chairman of the Branch, welcomed the visitors and extended a hearty invitation to the Branch dance to be held in Dundee in February.

Edinburgh

A history of Edinburgh Royal Infirmary from 1729 to 1929 has been written by Dr. A. Logan Turner.

In the manufacture of fine chemicals and pharmaceutical products in the Edinburgh district, home trade has been satisfactory but export trade has continued to be rather dull, states a report by Edinburgh Chamber of Commerce on the trades and industries of the city.

The second meeting of the sixtieth session of the Edinburgh Chemists' Assistants' and Apprentices' Association was held at 36 York Place, Edinburgh, on December 10, Mr. H. R. Dootson in the chair. The President, Mr. Charles J. Collins, M.P.S., surveyed the evolution of the pharmacist from the earliest times. He pointed out that the association of pharmacists with the sale of poisons in 1868 had been developed to the detriment of the wider issue involved, namely, his right to recognition as the proper dispenser of medicinal substances whether poisons or not. While the various Poisons Acts and Dangerous Drugs Acts gave the pharmacist a real position and important functions as a member of the community, they had to some extent obscured the issue. In this regard, he said, the National Health Insurance Acts were of more value. On the motion of Dr. Tait a vote of thanks was accorded to Mr. Collins.

Topical Reflections

By Xrayser

I Am Glad

that you have commented upon the terms of the Berkshire public medical service, which will begin, I understand, on January 1. This is the most recent service of its kind, and its progress or otherwise will be watched with interest by the chemists, not only of Berkshire, but of other counties as well. The promoters of the service are not too ambitious at the beginning, and are providing only for articles for which they will pay. Presumably medicines containing any of the drugs found on the N.H.I. Tariff can be prescribed and will be paid for; there is not provision, however, for the more expensive vitamin and liver preparations nor even for malt and cod-liver oil. The dressings list has also been cut down. Care will have to be exercised by chemists dispensing articles which are not included in the Tariff, but which may have been ordered by the medical practitioner. They must be paid for in this case by the patient, or if they are supplied free of charge to the patient the practitioner must pay for them at cost. So far, so good. What the effect upon the sales of proprietary medicines will be remains to be seen. The weekly payments for dependants of insured persons will mean less money for drugs purchased through the chemist in the usual way of business. All that he has to recompense him for the loss of business in this direction is the fees for dispensing. As I have pointed out in this column, these are quite insufficient for the work done; the only hope for the future is an increased dispensing fee with the certainty that there will be no discounting.

The Voluntary Pensions Scheme,

referred to on pp. 679 and 683 should be read by middle-aged pharmacists with the liveliest interest; you rightly describe it as an "attractive" scheme. The "black-coated" workers—and this class includes the chemist—have had in the past very little encouragement from the State to be thrifty and make provision for keeping the wolf from the door. The income limit is £400, determined by the income tax return at the time of entry. There must be hundreds or even thousands of chemists (and indeed small shopkeepers generally) who by dint of hard struggle have managed to work up their businesses to the £400 net income. Many of them, especially if they have brought up children, have been unable to take up any insurance for the declining years of life, apart, perhaps, from a small insurance for death. They have not been eligible for the existing contributory pensions scheme; all they could look forward to, if by any chance they fell on evil times, was the old-age pension at seventy, and this many regard in the light of charity. If they begin to pay on January 3, 1938, they are certain of benefits which extend to themselves if alive at sixty-five, or to their widows and children if they die before attaining that age. I expect that, among the 100,000 who joined in the first week, are many pharmacists; the outlook for pharmacy to-day is such that the small man, provided he is of suitable age, cannot afford to ignore an offer which, as you truly observe, gives him shillings for pennies.

Personal Control of Shops: Appeal

ON December 13, before the Lord Chief Justice and Justices Branson and Porter, in a King's Bench Divisional Court in London, the Hygienic Stores, Ltd., W.C.2, appealed against a decision of Mr. McKenna, the Bow Street magistrate, finding them guilty of offences alleged in contravention of the Pharmacy and Poisons Act, 1933 (*C. & D.*, 1937, 1, 327). The respondent to the appeal was the prosecutor at the Police Court, Mr. John Cecil Coombes, an inspector employed by the Pharmaceutical Society of Great Britain.

Case for the Appellants

Mr. D. N. Pritt, K.C., for the appellants, said his clients had been fined 5s. on each of four summonses, and the case was obviously regarded as a test, of sorts, to settle the question on the facts whether the company were in the circumstances "authorised sellers of poisons." Section 9 of the Act read:—

... A body corporate carrying on a business which comprises the retail sale of drugs shall be an authorised seller of poisons if the following provisions are complied with:—

(a) The business must, so far as it concerns the keeping, retailing, dispensing and compounding of poisons, be under the management of the superintendent ... who ... must be a registered pharmacist.

(b) In each set of premises ... the business must, so far as concerns the retail sale of drugs, if not under the personal control of the superintendent, be carried on subject to the directions of the superintendent under the personal control of a manager or assistant who is a registered pharmacist.

It appeared, continued Mr. Pritt, that the Hygienic Stores, Ltd., who carry on business in sixteen shops in and around London, were charged at Bow Street Police Court: (1) "That, on November 12, 1936, at 2 Piccadilly Circus, W., not being an authorised seller of poisons, did unlawfully sell, or cause to be sold by retail, a poison (strychnine) contained in Easton's syrup contrary to Section 18 (1) (a) of the Pharmacy and Poisons Act, 1933." There was another summons concerning the sale of strychnine in compound syrup of hypophosphites at 95 Charing Cross Road, W.C. Other informations alleged that appellants, at both premises, "not being an authorised seller of poisons, did unlawfully take, or use, or cause to be taken or used, in connexion with the sale of goods by retail, the title of 'chemist,' contrary to Section 3 (1) of the Act." The magistrate fined the company 5s. in respect of each offence.

From the facts admitted or proved at the Police Court it appeared that at three shops, in Piccadilly Circus, Charing Cross and Edgware Road, the business carried on comprised the sale of drugs and poisons by retail and the title "chemist" was used. At the remaining thirteen shops the appellants' business comprised the sale of medicines in the forms of pills, tablets, tonics, etc. under proprietary or trade names, and no poisons or other medicinal substances except permanganate of potash and sandalwood oil capsules were sold. The appellants did not at those shops use the word "chemists" or any other title the use of which was restricted by law to pharmacists or authorised sellers of poisons. The substantial business of each of those thirteen shops was the sale of contraceptives. The company's business, so far as it concerned the keeping and retailing of poisons, was under the management of a superintendent who was a registered pharmacist and a member of the company's board. In addition, the company employed two registered pharmacists to act with a superintendent as managers of the three shops. Two of the shops were kept open from 9 a.m. to 10.30 p.m., and the third from 9 a.m. to 11.30 p.m. daily except Sundays, when the hours were shorter. The superintendent attended at the Edgware Road shop during half of the hours when the shop was open, or longer, each day, while the managers of the other two shops attended at their premises for similar periods. On November 12, 1936, at the Piccadilly Circus shop, the strychnine was sold by an assistant who was not a pharmacist when the manager was not present; but at Charing Cross Road the poison was sold by the registered pharmacist.

It was argued, on behalf of Mr. Coombes, that the permanganate of potash and the sandalwood oil capsules sold at the shops contained drugs, and at none of the shops was that sale under the personal control of a pharmacist. So far as those

shops in which a pharmacist was employed were concerned, the hours of business were so long that the pharmacist was unable to and, in fact, did not personally, control the business carried on for the sale of drugs and poisons, and therefore the appellants did not fulfil the requirements of Section 9 (1) of the Act, and were not "authorised sellers of poisons" within the meaning of that Act.

The magistrate found that in each set of premises where the appellants' business was carried on the business was not, so far as the sale of drugs was concerned, under the personal control of the superintendent or a registered manager or assistant, and that the business of appellants at the thirteen shops did include the sale of drugs by retail. Mr. Pritt said his clients' contention was that the three shops were under the personal control of the superintendent or a qualified manager while, so far as the thirteen other shops were concerned, the business did not require the attention of a pharmacist because the retail sale of drugs was not carried on. If it were right that there could not be personal control when the manager was on the premises a part of the time the shop was opened, it would mean that every shop that was open for the sale of poisons must have on its premises all the time a pharmacist to control it. The magistrate should have held that control could have been effective on the facts of this case, because "control" did not necessarily mean attendance at the shop all the time. If the manager was the "boss" of the shop he was in control.

So far as the meaning of "drug" was concerned, it was illusive. It was not defined in the statute, while the dictionary was not too helpful. However, he (counsel) contended that the magistrate was wrong in law in finding that at the thirteen shops there was a sale of drugs. The dictionary said that "drug" was "an original, simple, medicinal substance, organic or inorganic, whether used by itself in its natural condition or prepared by art and as an ingredient in a medicine or medicament."

Case for the Respondent

Mr. Roland Oliver, K.C., for Mr. Coombes, said the real question was whether the appellant was an "authorised seller." The magistrate had found, in law, that at the thirteen shops there had been a sale of medicines by retail in the form of pills, tablets, etc. That being so, the appellants must show that there was no evidence of the sale of drugs. If there was a sale of medicines, said Mr. Oliver, then there was a sale of drugs. So far as "personal control" was concerned, he would remind the Court that never before, until this Act came into force in 1933, had the words "personal control" been used. They were now used to emphasise that where there was a sale of drugs and poisons there must be present on the premises for, at any rate, a substantial part of the time, a registered pharmacist to see that wrong things were not sold.

Reply for the Appellants

Mr. Pritt replied that if that statement was accurate, every chemist's shop in every town and village would be affected if drugs were sold, and the Pharmaceutical Society would have the pleasure of writing to every chemist saying "You must either open your shop for the sale of drugs for such time as you, the qualified pharmacist, can be there, or you must take another qualified assistant." However, he (counsel) submitted that if the Act meant that medicines necessarily meant drugs it would have plainly said so.

Judgment

The Court dismissed the appeal, with costs, affirming the decision of the magistrate. The Lord Chief Justice said that the magistrate, having heard the evidence, and having found the facts set out, came to the conclusion that in each set of premises where the appellants' business was carried on the business was, in so far as the sale of drugs was concerned, not under the personal control of the superintendent or a manager or assistant who was a registered pharmacist, and that the business carried on in the thirteen shops did include the retail sale of drugs. It had now been said that (1) the magistrate had omitted to find facts he should have found, and

(2) that he had misdirected himself upon the meaning of parts of the statute. Both of those criticisms failed. His lordship saw no reason for saying that the magistrate had failed accurately to understand any part of the Act, and, so far as the finding of fact was concerned, with regard to drugs he had clearly found a fact in terms.

With regard to the topic of personal control, it seemed that, looking at the case as a whole, the magistrate had come to the conclusion upon the fact that whatever may be the true definition of "personal control," he could not hold on the facts before him that the requisite degree of personal control had been exhibited. He was entitled to come to that conclusion on the material before him, and the Court thought he came to a correct determination in law. Justices Branson and Porter concurred.

Legal Reports

Pharmacy and Poisons Act, 1933.—At South Shields County Police Court, on December 7, Miss N. Barnes and Miss J. Basham, East Street, Whitburn, proprietors of a drug and wine store and hairdressing saloon, and John Joseph Tunstall, grocer, Lawn Terrace, East Boldon, were each summoned on three charges in respect of sales of poison. Mr. E. McManus prosecuted. In the first case a box of Do-Do Tablets were purchased, and in the second a bottle of Famel brand Syrup. The magistrates fined Miss Barnes and Miss Basham £1 as a firm on the first charge and 10s. in each of the other two charges, and imposed similar fines on Tunstall. Costs were included.

At Wallsend-on-Tyne Police Court, on December 14, Miss Ethel Christer, M.P.S., who carries on a drug store at 12 Neptune Road, was summoned by the Pharmaceutical Society on three counts in respect of a sale of Rankin's Ointment. Mr. S. G. Marsh prosecuted. Mr. C. E. Layne appeared for the defendant and pleaded "Guilty." Mr. Layne explained that Miss Christer had been a member of the Pharmaceutical Society for fifteen years and was still a member. About six years ago she opened the shop in Neptune Road as a chemist's shop; the turnover was too small, and three years ago she took a post as qualified assistant. She continued the business as a drug store with two assistants. There had been no sale of the ointment to the public. Miss Christer desired to express her regret, and could only assume that she had ordered the ointment by an oversight. She was ordered to pay the costs of each summons, £1 12s. 6d. analyst's fee and £2 2s. towards the costs of the prosecution.

Road Traffic Records.—At Old Street Police Court, London, on December 9, Idris, Ltd., mineral water manufacturers, Pratt Street, N.W.1, were fined a total of £17, with £10 10s. costs, on a series of summonses, chiefly for permitting employees to drive for continuous periods of more than five and a half hours and for permitting driving for periods amounting in the aggregate to more than eleven hours in twenty-four. Alternative summonses for failing to keep a proper record of hours and other particulars were dismissed. Mr. Knight prosecuting for the Commissioner of Police, said there were seventeen summonses in all. In a letter sent by the company to the Commissioner they stated that they regretted there were a number of errors in the record sheets made by their drivers. Counsel for the defendants called six drivers, in turn, into the witness-box. He pointed out that the Act required seventeen particulars on the record sheets, and only one had been disregarded.

A Misconceived Action.—In the Chancery Division of the High Court, London, on December 9, Mr. Justice Farwell dismissed with costs an action brought by Mr. Harry James Draper, Ombersby Road, Worcester, against the British Optical Association, Brook Street, London, W.1. The issue in the case was whether a code of ethics established by the Association was enforceable against Mr. Draper, a member of the Association, who was stated to have infringed the code by advertising prices of optical goods. Mr. Draper asked for an injunction to restrain the Association from enforcing on him a code of ethics, and from removing him from the register of members of the Association on grounds set out in letters from the Association to him or on the ground that he had advertised prices or had disobeyed the code of ethics. Mr. Fergus Morton, K.C., and Mr. F. Holroyd Pearce appeared for Mr. Draper; Mr.

R. P. Croom-Johnson, K.C., and Mr. Scott Henderson represented the Association. It was stated that Mr. Draper is manager of the Worcester branch shop of James Lucking & Co., Ltd., opticians, Corporation Street, Birmingham, by whom he has been employed since 1907. He has for several years been a member of the British Optical Association, which some months ago published a code of ethics. In June this year the secretary of the Association wrote to Mr. Draper stating that he had received an advertisement issued by James Lucking & Co., Ltd., drawing Mr. Draper's attention to the code of ethics and asking for an undertaking that he would not advertise prices. A subsequent letter stated that the Council of the Association would consider whether Mr. Draper's name should be removed from the register of members. Evidence was given by Mr. Draper, and also by Mr. Reginald James Lucking, managing director of James Lucking & Co., Ltd., and Mr. Irvine George Aitchison, managing director of Dolloud & Aitchison, Ltd.

Giving judgment, Mr. Justice Farwell said that the advertisement complained of was sent out by Mr. Draper under the instructions of his employers. The action between a member and an association as to whether any power of compulsion had been properly exercised, continued the judge, was not unusual, but an action of this kind, brought before the inquiry by the Association had been heard, was in his experience very unusual, and one that should not be encouraged. Unfortunately, Mr. Draper, on the advice of his solicitor, issued a writ in the action at once, and he moved for an injunction which came before the Court in October. The defendants then gave an undertaking not to hold a meeting until a reasonable time after the hearing of the action. "If the plaintiff had waited and had attended before the Association and had explained the position to them," said his lordship, "and the Association had then gone on to expel him or attempted to expel him he would have been in the position to have brought his action and have stated exactly what he alleged was the unlawful act of the Association. In my judgment he has wholly failed in this case to show the position. At the present time and in the present circumstances the action is misconceived, and must be dismissed with costs. I have been very careful not to express any view on the various arguments addressed to me."

New Books

Guy's Hospital Pharmacopœia. 5½ in. by 3½ in. Pp. 278. Ash & Co., Ltd., Holyrood Street, London, S.E.1. [A further edition of this book, understood to be the twelfth, has been compiled by the dispensary committee with the assistance of the Hospital medical and surgical staff. Much has been included from the B.P. and B.P.C., and preference has been given in selecting formulas to the simple and less expensive rather than to the complex and more costly ones. To lessen mishaps through inadvertence on the part of out-patients, the maximum dose of a drug is rarely directed. In addition to the formulary section of the book a summary of the B.P. Addendum, 1936, is given, together with dietary notes, a short bacteriological section and an account of poisons, antidotes and treatment.]

Mercer, F. W., and Gaunt, W.—*Modern Publicity, 1937-38.* Pp. xviii + 136. The Studio, Ltd., 44 Leicester Square, London, W.C.2. [Despite its problem-picture cover (which might be interpreted as representing the man who disapproved of every sort of advertising except publicity) "Modern Publicity" is a straightforward chronicle of recent commercial art. It contains 100 pages of illustrations in black and white, arranged under numerous headings. The examples are from many countries, and, though not strictly confined to productions of the last twelve months, are all of recent date and combine to give a fair impression of current achievement in this field. Reproduction is excellent throughout, and if the emphasis is entirely on design (which really forms only one aspect of the subject covered by the title), that may be excused having regard to the name of the publishers. The comparative absence of typographic specimens, as such, will be regretted by many, and the suggestion that a section be devoted to purely typographic advertisements may be considered worthy of adoption in future issues. The book is to be recommended to advertisers as a source of ideas.]

Company News

P.C. means Private Company and R.O. Registered Office

SALES DISTRIBUTORS (WALSALL), LTD. (P.C.).—Capital £500. Objects: To carry on the business of wholesale chemists and druggists, etc. Herbert H. Thatcher, M.P.S., The Moorings, Charlemont Road, Walsall, director. R.O.: 15 Bridge Street, Walsall, Staffs.

EKROY PRODUCTS, LTD. (P.C.).—Capital £1,500. Objects: To acquire the business of a manufacturing, wholesale and retail chemist and druggist carried on by Marjorie J. Yorke at 173/175 Station Road, Pendlebury, nr. Manchester, as "Ekroy Products."

COURTENAY (CHEMISTS), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of wholesale and retail chemists and druggists, etc. Ernest W. Atkinson, 85 High Street, Wealdstone, Harrow, director. R.O.: 3 High Street, St. John's Wood, N.W.8.

ANGLO-SAXON PHARMACEUTICAL PRODUCTS, LTD. (P.C.).—Capital £10,000. Objects: To acquire agreements for the distribution of proprietary medicines in Great Britain and Ireland and elsewhere. The first directors are to be appointed. R.O.: 10 New Square, Lincoln's Inn, W.C.2.

M.P.W. ACCESSORY SUPPLY CO., LTD. (P.C.).—Registered in Edinburgh.—Capital £1,000. Objects: To carry on the business of manufacturers and dealers in disinfectants and germicides and instruments for spraying, etc. James R. Marshall, 43 West Main Street, Armadale, director. R.O.: 23 Rutland Square, Edinburgh.

VICTORIA CLINICS, LTD. (P.C.).—Capital £2,000. Objects: To establish clinics in any part of England or elsewhere for the treatment of nasal catarrh and kindred ailments; to purchase, sell or deal in "Brevis" Ionisers for the treatment of the above or other complaints, etc. Ernest D. Hull, 4 Greenhill, High Street, Hampstead, director. R.O.: 70 Victoria Street, Westminster, S.W.1.

BENTHAM CHEMICAL CO., LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of tar distillers heretofore carried on by J. T. Hackett & Co., at Bentham Tar Works, Bentham, Yorks. Major Jas. H. Crossley, 941 Manchester Road, Huddersfield; Geo. D. Bamforth, Ingleborough, Slaithwaite, nr. Huddersfield; Wilfred D. Crossley, White Lea Farm, Marsden, nr. Huddersfield; Frank G. Bamforth, 34 Knowle Road, Golcar, nr. Huddersfield, directors.

LEVER BROTHERS, PORT SUNLIGHT, LTD. (P.C.).—Capital £4,000,000. Objects: To acquire the manufacturing and trading business and undertaking carried on at Port Sunlight, Ches., and elsewhere by Lever Brothers, Ltd., and certain assets and liabilities of that company in connexion therewith, and to carry on the business of soap, candle, paper and varnish makers, seed crushers, manufacturers of and dealers in soap and washing materials, tallow, oil, glycerin, oxygen, chemicals, paints, dyes, colours, and articles of food prepared from fat or otherwise and food for cattle and horses. The first directors (to number not less than three nor more than seven) are to be appointed. Solicitors: Simpson, North, Harley & Co., 21 Surrey Street, W.C.2. R.O.: Port Sunlight, Cheshire.

L. ROSE & CO., LTD.—Directors announce dividend on preference shares for six months ending December 31, at rate of 6 per cent. per annum, less tax.

SANGERS, LTD.—Interim dividend of 10 per cent. on the ordinary shares. Warrants will be posted on January 31. The payment a year ago was 8½ per cent; the directors state that the increase is not intended as a guarantee of an increased total dividend.

BEECHAMS PILLS, LTD.—The directors have declared a second interim dividend on the deferred shares of 20 per cent. in respect of the year ending March 31, 1938. Warrants will be posted on December 18. This dividend compares with 15 per cent. paid last year, and is payable on 1,186,875 deferred 5s. shares, compared with 1,050,000 deferred 5s. shares last year. As the first interim dividend declared in September was 17½ per cent. compared with 12½ per cent. for the previous year, the dividend now declared makes a total distribution to date of 37½ per cent. compared with 27½ per cent. last year.

Items in Parliament

MEDICAL BENEFIT FOR YOUNG PERSONS

The National Health Insurance (Juvenile Contributors and Young Persons) Act, which received the Royal Assent on December 9, makes provision for medical benefit under the National Health Insurance Act to boys and girls who, on leaving school, become employed before reaching sixteen. The scheme is to come into operation on April 4 next.

TRADE WITH U.S.A.

Mr. H. G. Williams asked the President of the Board of Trade what was the value in the latest year for which the figures are available of imports from the United States of America duty free and subject to duties not exceeding 10 per cent., respectively?

Mr. R. S. Hudson: Precise information as to the value of imports into the United Kingdom consigned from the United States of America which are not subject to duty or dutiable at rates not exceeding 10 per cent. is not compiled, but these are estimated at £28,000,000 and £12,000,000, respectively, for the year 1935. The figure of £28,000,000 includes machinery imported free of duty as being of a kind not procurable here, but does not include duty-free goods imported direct into registered shipbuilding yards or imported for use in the construction or repair of boilers or propelling machinery of ships.

Mr. H. G. Williams asked the President of the Board of Trade whether he will state for the latest year for which the figures are available the value of the exports of United Kingdom goods to the United States of America which enter that country duty free and subject to duties not exceeding 10 per cent., respectively?

Mr. R. S. Hudson: During the year 1935 imports into the United States from the United Kingdom of goods for home consumption which were admitted free of duty were \$67.7 million and at rates not exceeding 10 per cent. \$6.6 million.

MILK POWDER (DUTIES)

Mr. Acland asked the Financial Secretary to the Treasury (1) in what form have the manufacturers of the articles covered by the recommendations contained in Cmd. 5591 given assurances that the prices of their product will not be raised above certain maxima; what are these maxima; what are the current prices of the products concerned; and what were the corresponding prices a year ago and at the same time of year in 1930; (2) what is the rate of duty at present charged on each of the articles mentioned in the schedule to Cmd. 5591; what will be the rate of duty on those articles if the recommendation of the Import Duties Advisory Committee is accepted; and what is the current wholesale price of 1 cwt. of each of those products?

Lieut.-Colonel Colville: The existing rates of duty and the rates which were recommended by the Import Duties Advisory Committee are set out below. The home manufacturers gave the Committee assurances that in the event of the duties being increased they would not advance their prices beyond certain maxima, except in so far as increases could be justified by increases in the prices of the materials which are important factors in the cost of production. The duties have not in fact been increased. The tables include the following:—

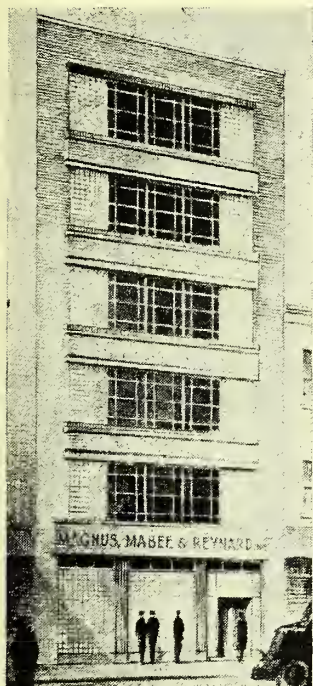
| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Milk powder and other preserved milk excluding condensed milk, being goods which are chargeable with duty under Section 1 of the Ottawa Agreements Act, 1932. Duty in force:— | Duty recommended by the Committee:— |
| 6s. per cwt. | £1 8s. per cwt. |

Processed Milks

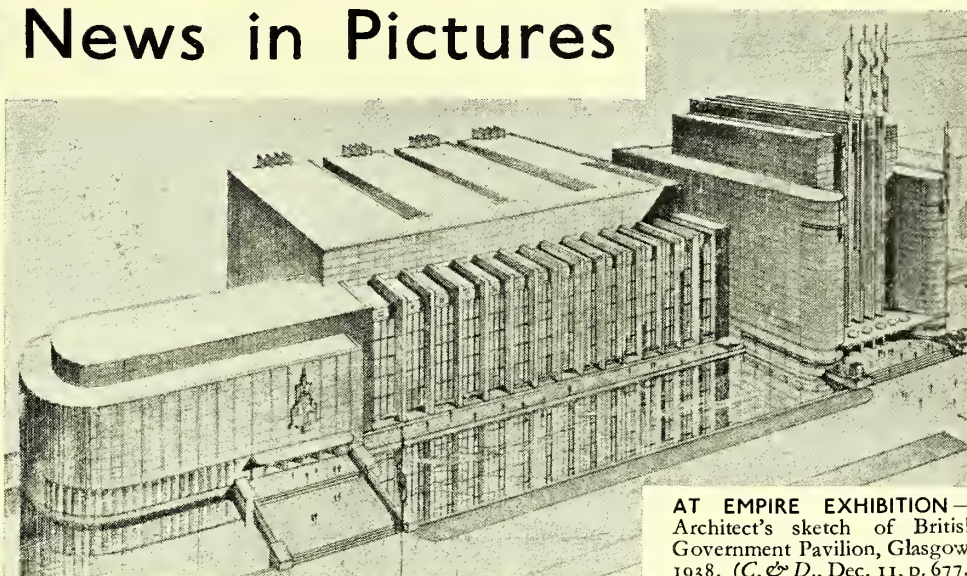
Wholesale Prices: United Kingdom Production.

| Product | Quantity | 1937 | 1936 | 1930 |
|----------------|-------------------------------------|-----------|--------------------|----------|
| Milk Powder: | | | | |
| Full Cream: | | | | |
| Roller Process | Cwt.(cartons or paper lined cases). | 76s. | 51s. 6½d.—59s. | 72s. |
| Spray | Cwt. ... | 86s. 8½d. | 73s. 9d. | 109s. |
| Skimmed: | | | | |
| Roller Process | Cwt. (bags)... | 28s. | 22s. 3d.—35s. 0½d. | 33s. |
| Spray | Cwt. ... | 40s. | 28s. | 54s. 6d. |

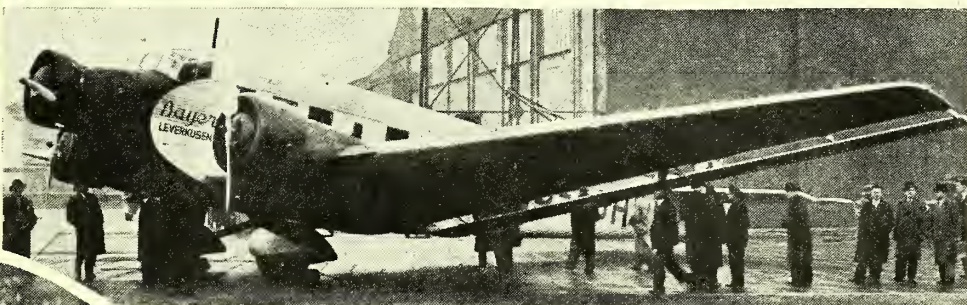
News in Pictures



GLASS-BRICK BUILDING—New six-storey headquarters, with façade of translucent bricks, for Magnus, Mabee and Reynard, Inc. (essential oils), New York, U.S.A.



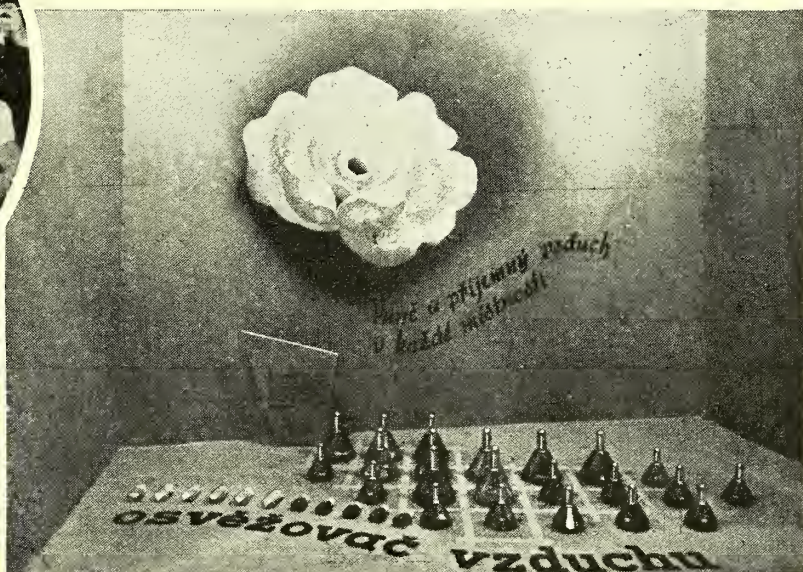
AT EMPIRE EXHIBITION—Architect's sketch of British Government Pavilion, Glasgow, 1938. (C. & D., Dec. 11, p. 677.)



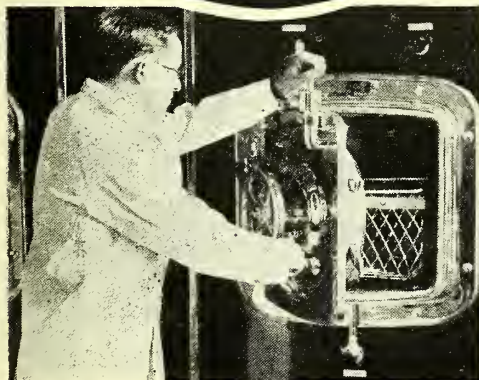
BAYER 'PLANE (above)—Arrival at Croydon on December 14 of new high-speed aeroplane of Bayer Products, Ltd., for emergency deliveries.



DUBLIN DANCE (at left)—Group includes the Lord Mayor (wearing chain), Mrs. P. A. Brady, Mr. Brendan Smith and Mr. G. O'Neill (committee chairman).



CZECH ATOMISER DISPLAY—The atomisers are displayed on squares marked out off the window base, while the products are arranged in a curve. The display was by Mr. Josef Henrych, Prague.



NEW R.C.S. LABORATORIES (at left)—Sterilising equipment at the Bernhard Baron Research Laboratories, Royal College of Surgeons, London, which were opened on December 8.

Trade Notes

MINIATURE CAMERA DEVELOPER.—Johnson & Sons (Manufacturing Chemists), Ltd., Hendon Way, Hendon, London, N.W.4, have introduced an additional



"made up" developer for the use of miniature camera workers. It is prepared in accordance with the Meritol-Metol formula and embodies the fine-grain properties of Meritol and the speed of metol. Times of development are thus reduced by about 50 per cent., and the image obtained differs only slightly in grain from that of Johnson's superfine grain formula. An explanatory leaflet has been prepared and may be obtained on application. This developer is packed in tins as illustrated on this page.—The prize-winners in Johnson's holiday competition, which closed in October, have now been

selected. We are informed that 30 per cent. of the negatives entered were developed with Johnson's fine-grain developers.

TREATMENT OF ASTHMA.—In this issue C. R. Harker, Stag & Morgan, Ltd., Emmott Street, London, E.1, direct attention to Harker's asthma-squares which are stated to give relief in obstinate cases. There are two sizes: 16 and 32 doses. Details may be obtained on application.

DRUG ATLAS.—W. S. Lean, lecturer in pharmacognosy at the Birmingham Central Technical College, has compiled a drug atlas for students of pharmacy and medicine. The drug atlas, which consists of sixteen pages, is intended primarily for students working for the Chemist and Druggist Qualifying Examination. The drugs included in the atlas are those appearing in the pharmacognosy syllabuses for the Pharmaceutical Society examinations with additional drugs which are common varieties of those mentioned in the syllabus. The atlas is published by Longmans, Green & Co., Ltd., 39 Paternoster Row, London, E.C.4.

KELLY'S POST OFFICE LONDON DIRECTORY, 1938.—The 139th edition of this publication has just been issued by Kelly's Directories, Ltd., 186 Strand, London, W.C.2 (cloth 55s., leather 70s.). In the trades section of the Directory four and a half columns of service flats have been included, and in the official section particulars of the major changes which took place at the War Office as recently as December 3 are given. The general arrangement of the Directory remains the same, but the new type used for street headings will make reference to that section considerably easier. The usual map is included.

CULMAK DRIER.—Illustrated on this page is the Culmak drier which is suitable for all kinds of shaving brushes.



The stand is a white resinoid apparatus with three upright prongs which hold the brush so that it may drip into the saucer of the drier. A clean dry brush is thus always provided ready for use. These driers are made by Culmak Works, Vale Road, London, N.4, and are packed in cartons in display outers containing four.

PERFUMERY LIST.—We have received an advance copy of the Perfumery Products and Chemicals Price List which will be issued early in January by W. J. Bush & Co., Ltd., Ash Grove, Hackney, London, E.8.

The list is quarto size and contains forty-eight pages with all kinds of raw materials and substances used in the perfumery, cosmetics and soap industries. A feature of the list is the extensive range of own manufactured products in essential oils and aromatic chemicals.

INCREASED PRICES for the products of Herbert Fromm, 29-31 Oxford Street, London, W.1, will take effect from January 1. Details were given in the advertisement pages of the *C. & D.*, December 4.

AFRICAN AGENCY.—W. J. Rendell, Ltd., Hardwick House, 161/165 Rosebery Avenue, London, E.C.1, have appointed the African Commercial Co., P.O. Box 1108, Salisbury, Southern Rhodesia, as sole distributors for Northern and Southern Rhodesia.

Trade-Mark Applications

(From "The Trade Marks Journal," November 10, 1937)

"VERITOL"; for medicament for the blood circulation (3). By Knoll A.-G., 95 Bleichstrasse, Ludwigshafen am Rhein, Germany. 578,952.

"MANDRAKE" with drawing of bird with head of man (3); for pills and embrocation from mandrake herb (3). By J. Barrett (G. Platt), 9 Coniston Road, South Shore, Blackpool. 579,385. (Associated.)

"CEFONIN"; for medicaments for hay fever, etc. (3). By E. Beretz, 2 Place de l'Homme de Fer, Strasbourg, France. 579,334.

"SONELL"; for medicinal herbal preparations (3). By E. Gibson, 25 Ethel Terrace, West Horton, Durham. 579,599.

"SENARTINA"; for medicinal chemicals (3). By C. Serono and P. Bertarelli, 125 Via Casilina, Rome. 579,976.

"EGOPHAN"; for ointments (3). By C. Goldblatt, 30 Bouyerie Street, London, E.C.4. 579,990.

"ENDOLEX"; for medicaments for rheumatism (3). By Itonic Laboratories, Ltd., 11 Cheapside, Bradford. 580,196.

"THE LUCK OF THE SEVEN"; for pharmaceutical ointment (3). By Domo Remedies, Ltd., Plantation House, Fenchurch Street, London, E.C.3. 580,319. (Associated.)

"PLEASURE CRUISE"; for perfumes (48). By Pleasure Cruise Products, 206 Upper Thames Street, London, E.C.4. 579,271.

"ADRIENNE"; for perfumery, etc. (48). By United Drug Co., Ltd., 29 Kirkewhite Street, Nottingham. 580,350.

(From "The Trade Marks Journal," November 17, 1937.)

"DURAMIK"; for all goods (1). By Gross, Sherwood & Heald, Ltd., Jenkins Lane, Barking, Essex. 579,782.

"ORANOX"; for agricultural chemicals, etc. (2). By Imperial Chemical Industries, Ltd., Imperial Chemical House, Millbank, London, S.W.1. 579,874.

"EAREFTOX"; for medicated veterinary preparations for ears (2). By J. Davidson, 57 Sunnyside Road, Coatbridge. 579,906.

"STREBOR"; for veterinary chemicals, etc. (2). By R. Roberts, Jubilee Works, Llandudno, Wales. 580,491.

"PULSATENE"; for medicated tablets for women's nerves (3). By J. H. Hope, 150 Deane Road, Bolton. 579,478.

"DIGITEST"; for medicinal chemicals, containing digitalis (3). By Dr. Emil Kantorowicz, 74 Sebastianstrasse, Berlin. 576,490.

"ARNOIL"; for medicated scalp oils (3). By Marchant Hills & Co., Ltd., Ewing House, Chiswell Street, London, E.C.1. 577,814.

"PARMANIL"; for medicinal chemicals (excluding soap) (3). By Bayer Products, Ltd., Basinghall Street, London, E.C.2. 580,106.

"SUPRAHYPON"; for medicinal chemicals (3). By M. Woelm, 7 Bahnhof, Eschwege, Germany. 580,414.

"RIBNIK"; for powdered medicated preparations (3). By Welkum Product Co. (W. S. Rae), 11 Dundas Street, Glasgow. 580,442.

"GELSULES"; for medicinal chemicals (3). By Hough, Hoseason & Co., Ltd., Bridge Street, Manchester. 580,555.

"SEPTANILAM"; for medicinal chemicals (3). By Glaxo Laboratories Ltd., Greenford, Middlesex. 580,601.

"PARADOX"; for cotton or linen surgical gloves (11). By Solport Bros., Ltd., 184 Goswell Road, London, E.C.1. 578,986.

"NU-TRX"; for toilet depilatory (48). By The Nutex (India) Co., Meadows Street, Fort, Bombay. 569,686.

"MICROSPUN"; for perfumery, etc. (48). By The Dubarry Perfumery Co., Ltd., Goldstone Laboratories, Hove. 578,572.

"TOPAX"; for all goods (48), excluding toilet soap. By Topax, Ltd., 35 Otley Road, Shipley, Yorks. 579,413. (Associated.)

"PERSONALITY" and portrait of girl; for perfumery, etc. (48) By The Standard Soap Co., Ltd., Derby Road, Ashby-de-la-Zouch. 580,281.

"DENT-ODOL"; for artificial denture preparations (48). By Cranbux, Ltd., 103 Westwick Street, Norwich. 580,419. (Associated.)

Marriages

TRAYNER—FAIRBROTHER.—At St. Benedict's Church, Hindley, Wigan, on December 4, John Trayner, M.P.S., to Annie Fairbrother.

Deaths

BAILLIE.—At Knapdale, Hamilton Road, Motherwell, on December 9, Mr. Daniel Baillie, M.P.S., for many years in business at 170 Brandon Street, aged seventy-one. Mr. Baillie was a keen dog fancier and a past-president of Motherwell Bowling Club. He is survived by a daughter.

BEESTON.—On December 7, Mr. Arthur Edward Beeston, M.P.S., 76 St. Giles Street, Norwich, aged fifty-eight. Mr. Beeston was chairman of the Norwich and District Branch of the Pharmaceutical Society and was presiding at a meeting of the Society when he was taken suddenly ill and passed away. Death was found to be due to angina pectoris. Mr. Beeston served his apprenticeship in Norwich. He qualified in 1900, and afterwards purchased the business of John Bell & Co., Ltd., St. Giles Street, Norwich, which is now being continued by his son, Mr. A. B. Beeston, M.P.S. Mr. Beeston was a member of the local Pharmaceutical Committee from its inception, and of the Insurance Committee for about fifteen years. He was of a kindly disposition, as many past students can testify. The funeral service took place on December 11 at Princes Street Congregational Church, followed by interment at the Rosary. Mr. J. F. Collin, Ph.C., represented the local Branch of the Society, and Messrs. E. Hudspith and J. W. Copeland the Norwich Insurance Committee.

CAMPBELL.—At Sunnybrae, Lockerbie, on November 30, the wife of Mr. Duncan Campbell, chemist and druggist, 62 High Street.

CLARE.—Recently, Mr. John Clare, chemist and druggist, Ryton, Shrewsbury, aged seventy-nine. Mr. Clare was for a long period the proprietor of the business known as Clare & Hunt at Scarborough, founded about the year 1850. During the bombardment of the town by enemy warships on December 16, 1914, a corner of the pharmacy was blown away. Mr. Clare was a member of the Old Globe Masonic Lodge.

CUMMINGS.—At Dundee, on December 11, Mr. Gordon Cummings, pharmacist, 17A Wellington Street. Mr. Cummings qualified in 1922.

HITCHMAN.—At Harrold, Bedfordshire, recently, Mr. Walter Hitchman, chemist and druggist, formerly of Market Place, Kettering, aged seventy-one.

OLIVER.—On December 8, after a brief illness, Mr. Arthur Oliver, M.P.S., wholesale chemist, Nursery Road, Heaton Norris, Stockport. Mr. Oliver, who qualified in 1891, was formerly in business at Salford and Grimsby.

SHARPS.—Recently, Mr. John Sharps, chemist and druggist, Sanderstead, Surrey, aged fifty-four.

SPANTON.—Recently, Mr. William Coulson Spanton, chemist and druggist, Torregarth, Burton Leonard, Harrogate, aged sixty-eight.

STATHAM.—Recently, Mr. Arthur Harold Statham, M.P.S., The Croft, Barthomley Road, Audley.

Business Changes

MR. J. WOOD, chemist and druggist, has taken over the business of Mr. Thomas Elliot, chemist and druggist, 30 Hide Hill, Berwick-on-Tweed.

ROBERT BLACKIE, manufacturing chemists, are removing to larger premises at Shen Works, Melon Road, Peckham, S.E.15, on December 18. (Telephones: Rodney 3874/5/6 and 3250.)

THE business carried on by Mr. W. R. Edwards, chemist and druggist, Midsomer Norton, Somerset, has been formed into a partnership under the style of Edwards & Adams. The new address is 2 High Street, Midsomer Norton, Somerset.

Personalities

MR. HENRY POTTER (Potter & Clarke, Ltd., London, E.1), and Mrs. POTTER are shortly leaving London by the P. & O. liner "Strathmaver" for their fifth visit to Australia, where they hope to see their many friends in Fremantle, Adelaide, Melbourne, Sydney and Brisbane. They propose returning by New Zealand, and expect to sail from Wellington on the "Rangitiki" (via the Panama Canal). Mr. and Mrs. Potter are due back in London on April 12, 1938.

MR. CHARLES L. HUISKING, president of Chas. L. Huisking & Co., Inc., drug and chemical importers and exporters, New York, is expected shortly on his annual business trip to Europe. Mr. Huisking will first visit his London house, Wheeler & Huisking, Ltd., 26 Great Tower Street, E.C.3, where he may be addressed prior to his arrival. He expects to be in London about the middle of January. As usual he will subsequently visit in Germany in addition to his calls throughout Continental Europe and the Scandinavian countries.

THE installation meeting of the Edward Terry Lodge of Freemasons was held on December 9 at the Masonic Hall, Great Queen Street, London, W.C.2, when Bro. W. Clarence Tarry was installed W.M. Among the officers invested were: W. Bro. Tom Batey, P.G.Std.B., as chaplain; Bro. W. B. Falding as S.W.; and Bro. W. R. Roberts as J.W. Other pharmacists present were W. Bro. Lloyd Evans, P.Z., W. Bro. A. J. Greatrex, P.Z., W. Bro. Donald Grant, Bro. J. Hastings Harrison, Bro. W. E. D. Shirliff and Bro. Oliver Marlow.

MR. HENRY LLOYD WILSON, chairman of John and E. Sturge, Ltd., precipitated chalk manufacturers, Birmingham, recently celebrated the fiftieth anniversary of his association with the company, during which period he has been in charge either as senior partner or as chairman of the board of directors. The event was recognised on December 3 when the employees of the company made a presentation to him. In a card distributed to all members of the parent and subsidiary companies as a memento of the occasion Mr. Wilson acknowledged the co-operation of the staff at Wheeley's Lane, and, for part of the time, at Lifford, and also in connexion with the factories at York and Montières, France.

Recent Wills

MR. EDWARD HARRY SIMMONS, The Dell, Egerton Park, Worsley, Lancs, vice-president of the Pharmaceutical Society of Great Britain, who died on May 1, left £32,078, with net personalty £29,983.

ALDERMAN WILLIAM BENNETT, M.P.S., Flat 2, 231 Kennington Road, S.E., formerly of 187 Windsor Road, Torquay, formerly Socialist M.P. for South Battersea, who died on November 4 last, aged sixty-four, left £2,574, with net personalty £2,542.

Christmas Holidays

WE are advised that most of the manufacturing and wholesale houses will be closed from Friday evening, December 24, to Tuesday morning, December 28. The following firms will close at midday on December 24:—The British Drug Houses, Ltd.; Burgoyne, Burbidges & Co., Ltd.; The Crookes Laboratories; Herbert Fromm; Pharmaceutical Specialities (May & Baker), Ltd.; Potter & Clarke, Ltd.; William Ransom & Son, Ltd.; Roche Products, Ltd.

The following special and additional closing arrangements should be noted:—Dakin Brothers, Ltd. (closed for stocktaking, December 29, 30 and 31); Glaxo Laboratories, Ltd. (closed December 24; open for urgent orders only); C. J. Hewlett & Son, Ltd. (closed for stocktaking, December 28, 29 and 30; open for urgent orders only); Howards & Sons, Ltd. (closed for stocktaking, December 30 and 31); R. J. Reuter Co., Ltd. (closed on December 28); Wright, Layman & Umney, Ltd. (closed for stocktaking, December 29, 30 and 31).

WE are informed that the products of several firms are available in emergencies from John Pell & Croyden, 50-52 Wigmore Street, London, W.1, or Mr. R. Woolby Brooke, 38 Gloucester Road, London, S.W.7.



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*Envelopes and Cartons free with all orders.
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Each fluid drachm (4 c.c.) contains 7½ grains (0.6 gm.) of amino benzene-sulphonamide ($H_2N \cdot C_6H_4 \cdot SO_2 \cdot NH_2$). Pleasantly flavoured for oral administration in haemolytic streptococcal infections.

Used in Streptococcal Septicæmia including Puerperal Septicæmia, Meningococcal Meningitis, Peritonitis, Scarlet Fever with complications, Erysipelas, Tonsillitis, etc.

Dose: Adults, 2 fluid drachms (8 c.c.) three times a day. Children (under 12) half the adult dose, decreasing according to age.

Price: 6/- per 8-oz. bottle; 18-oz., 11/6. In bulk, 11/- per lb.

On the "Chemists' Friends" List

"Counter Prescribing"

The age-old right of chemists to 'counter-prescribe' is preserved to them under Sec. 19 (1)(c) of The Pharmacy and Poisons Act, 1933.

The latest edition of "DISEASES AND REMEDIES" is an invaluable standby in this connection. It provides a host of tested formulas in accordance with modern medical practice, as well as an alphabetical arrangement of diseases.

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THE CHEMIST AND DRUGGIST
28 Essex Street, Strand, London, W.C.2

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

| | |
|---------------------------|-----------------------|
| B/15 Bath Satin | S/13 Pravia perfume |
| B/15 Colorado Essence | B/13 Renesol Capsules |
| P/26 Medico brand aspirin | B/13 Solsaxol |

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The Chemist and Druggist Diary and Year-Book, 1938

SHORTLY after Christmas *The Chemist and Druggist Diary and Year-Book, 1938*, will make its appearance, and, as in the past, will undoubtedly serve as one of the most valuable books of reference to practising pharmacists and manufacturers alike. For each edition of the *Diary and Year-Book* (now in its seventieth year) efforts are made not only to provide the pharmacist with up-to-date information on the many legal matters which govern his professional activities, but also to select articles of topical interest. Turning first to the longest of these, not for several years has anything like so much information on the Medicines Stamp Acts been included in the *Diary and Year-Book* as that given in the present volume. The changes which have taken place in the administration of the Acts, and the legal decisions which have been made in this connexion, have only increased the problems relating to the sale of proprietary medicines; and for this reason no fewer than twenty-three pages have been allotted to the subject in the present *Diary and Year-Book*. Descriptions of the principal Medicines Stamp Acts since their introduction in 1783 up to the present time are given, and a lengthy account of the proceedings and recommendations of the Select Committee of 1936-37 on Medicine Stamp Duties affords some idea of the complexity of the matter. A revised, alphabetically arranged glossary of technical terms, which will be of special interest to makers and vendors of proprietary medicines, has been added, which explains points concerning the Acts likely to arise in the course of business.

Another feature to which we may draw attention is a detailed list given of preparations exempted from the application of the Dangerous Drugs Acts changed during 1937 to (a) international or "Geneva Convention" preparations exempted by declaration under an Order in Council dated April 13, 1937, (b) preparations exempted by inclusion in the Fourth Schedule to the Dangerous Drugs Regulations,

1937. In the former group are included forty-eight preparations of morphine, cocaine, heroine, dicodide and eucodal, made to specified formula or within specified limits for which a licence is not needed to export. The latter group embraces those preparations which necessitate an export licence. Not less valuable than this information will be the condensed notes on the statutory restrictions of the sale of poisons in Great Britain, the Irish Free State and Northern Ireland. In the pages devoted to this subject a tabulated list of statutory poisons is set out showing the restrictions applicable to each poison, and in certain cases the special exemptions made. Other articles in the new volume written for the retail pharmacist and worthy of mention are: Tubular Lighting in Display; Letters on Opening a Pharmacy; and Anti-gas Treatments and Supplies.

A feature which will further increase the value of *The Chemist and Druggist Diary and Year-Book, 1938*, to manufacturers and buyers at home and abroad is the Buyers' Guide, which has been extended, and is now the largest in the history of the publication. This, together with the Trade Directory, makes the *Diary and Year-Book* the most complete manual of its kind in the drug, chemical and allied trades. It may be noted that the cover of the new volume has been altered in design, and its new colour brings it into line with the other *Chemist and Druggist* publications.

Since the new edition went to press notice has been received of the following changes in the *personnel* of chemists' association officers:—

BATH PHARMACEUTICAL ASSOCIATION.—*President*, Mr. W. T. Hallett.

BRIGHTON AND HOVE ASSOCIATION OF PHARMACY.—*President*, Mr. W. G. Northey.

EXETER AND DISTRICT BRANCH OF THE PHARMACEUTICAL SOCIETY.—*Secretary*, Mr. F. Southerden.

HERIOT-WATT PHARMACY ASSOCIATION.—*President*, Mr. W. Bocker; *Secretary*, Mr. J. Kelly.

LONDON (NORTH-EAST AND EAST) PHARMACEUTICAL ASSOCIATION.—*President*, Mr. A. F. Huggins; *Secretary*, Mr. F. W. J. Hooper.

TORQUAY AND DISTRICT BRANCH OF THE PHARMACEUTICAL SOCIETY.—*Secretary*, Mr. T. D. Evans.

War Risks Insurance

EARLIER in the year the Non-Marine Underwriters of Lloyd's decided they could no longer write war risks on land in the United Kingdom. As a result of this decision policy holders who were covered against loss of property and/or goods arising out of war and civil disturbances are, as the current premium period expires, being advised:—

"No liability shall attach to (name of insurance company) under this Policy as from its renewal date, for any consequence (other than claims for accidents to Servants if covered by this Policy) whether direct or indirect, of War, Invasion, Act of Foreign Enemy, Hostilities (whether War be declared or not), Civil War, Rebellion, Revolution, Insurrection or Military or Usurped Power, and any such liability which may have been undertaken by the Company under this policy, or under any endorsement thereon shall cease and determine."

This clause will be printed on all renewal receipts and the companies state "they have come to the conclusion that these risks are not proper subjects for insurance."

The issue thus raised is one of the utmost importance to everyone, whether they be owners or leaseholders of property (commercial, industrial or private) or the owners or holders of goods. Dealing first with the absolute owner-

ship of property, it seems that no action can now be taken to cover against loss from outside attack or internal strife. In the case of leaseholders, it is usual for the tenant to have agreed to "repair and keep in repair, deliver up in good repair and to insure," and in some leases insurance against "damage and loss from hostile aircraft and against other war risks" is stipulated. Where this latter clause is not included it would appear that any loss arising out of such damage may possibly fall on the owner and not on the lessee, who might reasonably hope to plead successfully that, although he had covenanted to insure the property, insurance against such risks had become impossible. It would, we suggest, be as well if lessees brought the matter to the notice of their lessors by sending them a copy of the clause quoted above. Where a tenant has specifically covenanted to insure any property he holds on lease against war and similar risks he might be well advised to take legal advice as to what action, if any, he should now take. The owner of property or goods which are held on mortgage appears to be placed in a very dangerous position. The property or goods are, despite the mortgage, his by ownership and any loss would be his. He might lose his property or goods and the mortgage would still be his liability. In the chemical, drugs and essential oils trades, large quantities of goods are held in this country "on consignment." Such goods are insured in the normal way of business, but under the position which now arises the consignees might advise the consignors of their inability to cover against loss or damage through war, civil strife, etc.

Questions have been raised in Parliament on the subject and the Government's replies may be summarised as follows:—(1) The Government do not propose to institute any scheme of insurance, and (2) that, after a full consideration of all the circumstances the Government reached the conclusion that no scheme of insurance of property in this country against war risks on land would be appropriate to the conditions of a future war so far as they could be foreseen. If, however, conditions arose which any scheme of insurance would be designed to meet it would be for the Government of the day to consider making to owners whose property had suffered damage such compensation as might be possible at the time. These parliamentary statements suggest that it might be practicable for the Government of the day sympathetically to consider claims for compensation provided the amounts involved were of a comparatively reasonable aggregate, and within their ability to meet. On the other hand, destruction might be widespread and the consequent claims for compensation far beyond the limit of the Government to meet out of the taxpayers' pocket. For these reasons, quite naturally, the Government have decided not to institute a national scheme of insurance against such risks. While we have attempted in this article to make various suggestions which may assist in straightening out the position, we urge everyone concerned to take legal advice on their own particular cases, so that, should the necessity ever arise, they will be able to show they have taken all possible steps to meet the position.

Pharmaceutical Society of Northern Ireland

Council Meeting

THE monthly meeting of the Council was held at the Society's headquarters, 73 University Street, Belfast, on December 10, the president (Mr. S. H. Forrest) in the chair. There were also present Messrs. W. C. Tate, S. Gibson, J. Glendinning, J. W. Gray, W. Martin, J. McDowell, J. McGregor, H. F. Moore, J. E. Connor, Dr. Acheson and Professor E. B. Mayrs. The secretary (Mr. D. L. Kirkpatrick) was in attendance. Apologies for absence were received from Mr. I. W. Parker, Mr. J. F. Grimes and Professor James Small.

DEATHS

THE PRESIDENT referred to bereavements sustained by two members of the Council, Mr. Trevor Nicholl by the death of his mother and Mr. Abernethy by the death of his brother.

The members stood in silence, and the secretary was asked to send letters of sympathy.

LICENCE RENEWED

An application was received from Mrs. Cherry Newtownards, for permission to carry on her business for another term.

On the motion of Mr. McDOWELL, seconded by Mr. GRAY, permission was granted.

LAPSED MEMBERSHIP

An application from a chemist to become a member of the Society was received.

THE SECRETARY stated that the applicant had previously been a member, but had been struck off in 1933 for non-payment of his subscriptions. He had not resigned from the Society.

It was decided that the Society's attitude should be to ask for payment of the arrears before admitting the applicant.

FINANCE COMMITTEE

The minutes of the Finance Committee were passed on the motion of Mr. MARTIN, seconded by Mr. CONNOR.

REPORT FROM EXAMINERS

The report from the Board of Examiners was received on the motion of Mr. MOORE, seconded by Mr. GIBSON. (The report has already been published.)

THE SECRETARY said it seemed that candidates were now failing in chemistry instead of botany as formerly. In the Part II finals thirty-six sat, twelve passed, ten were referred and fourteen failed.

Mr. GIBSON said the examination was a very searching one. It was stated that the detailed report from the Board of Examiners would be before the January meeting.

MEMBERS ELECTED

On the motion of Mr. CONNOR, seconded by Mr. MOORE, the following candidates were elected members of the Society: James Joseph Macartan, Quoile, Downpatrick; Francis John Rogan, c/o McKnight's Medical Hall, Carlisle Circus, Belfast; George Hamilton, 21 Martinez Avenue, Belfast; Joseph Millar, 216 Shankill Road, Belfast; William Henry Poulter, 63 Dunluce Avenue, Belfast.

LECTURES PROPOSED

Mr. TATE referred to a discussion at the annual meeting concerning the holding of lectures in connexion with the Society. He thought a promise had been given that post-graduate lectures would be considered by the Council.

Dr. ACHESON said it might be possible to hold lectures, but it would not be possible to embark on a course.

The difficulty, said Mr. MCGREGOR, was to get chemists to turn out to meetings. Until an attendance could be guaranteed they would hardly be in a position to proceed.

Asked about the post-graduate courses for doctors, Dr. ACHESON said the funds for these courses, which were strenuous and lasted for a fortnight, came from National Health Insurance money belonging to the doctors which had not been distributed. In Britain the post-graduate courses were financed by the Ministry of Health.

Referring to the attendance at lectures, Mr. GLENDINNING said he doubted whether country members would come to them.

After further discussion it was proposed by Mr. GIBSON, seconded by Mr. McDOWELL and agreed that the matter should be considered by the Education Committee.

N.H.I. Discussion at Huddersfield

AN address was delivered recently to the Huddersfield Chemists' Association by Mr. G. A. Mallinson, secretary of the National Pharmaceutical Union, on "N.H.I. Negotiations and Other Matters."

Mr. MALLINSON said a notion was abroad in the pharmaceutical Press that new N.H.I. terms must be obtained now, but this was impossible with the present contract only eighteen months old and another three and a half years to go, unless it was terminated by six months' notice at the end of 1938. Prior to the recent controversy there was a movement to stir up a panel chemists' grievance against discounting and discredit the N.P.U. When the results of the discounting were revealed other tactics had been adopted. Mr. Mallinson reviewed the history of payments for insurance dispensing on the same lines as at Bradford (*C. & D.*, November 13, p. 569). Turning to recent events, he pointed out that in 1927 there was a deficit of £123,000. In the next two years there was a surplus of £196,000 annually, and in the third year there was £166,000. Over the period of ten years there was paid out over and above full payment of accounts the sum of £335,400. In 1931 the economic crisis cost the chemists £362,000. Over that period of ten years on £20,000,000 there was thus an actual deficit of £26,000. Those who had dispensed for N.H.I. since its inception had not lost anything, but to the pharmacists entering business during recent years it would appear that they have had a poor deal. If the N.P.U. had not accepted responsibility for the drug fund, chemists would in all probability have had to accept a penny reduction in the dispensing fee. During the ten years in question it would have cost chemists a total of £2,750,000. All were agreed that the system was not right. Insurance was a gamble no matter what the phase may be, and the N.H.I. Acts were based on that principle. The chemist was helpless to control the demands, but the doctor, to a degree, could control the demands. The approved societies had an influx, and therefore there should be no shortage in the drug fund. This surplus, however, did not belong to the Government; it was a reserve accumulated by the approved societies in the event of sickness epidemics. The N.H.I. Act said how the money for medical services shall be divided, and only an Act of Parliament could alter this.

The Act for sickness insurance for persons under sixteen years of age would come into operation on January 1, 1938. The suggestion underlying recent controversy was that the N.P.U. has not accepted help from the Pharmaceutical Society. Mr. Mallinson also dealt with the C.F. scheme and other matters.

Discussion

Mr. LANDER asked if, by vigorously resisting pressure, they retained the dispensing fee in 1926, could not they do so again now?

Mr. MALLINSON said this was the policy which had been pursued.

Mr. NORTH thought that the offer from the Pharmaceutical Society was well meant. He asked why the N.P.U. had sat back and waited instead of going forward like the doctors for better terms.

Mr. MALLINSON said they had not sat back and waited. He pointed out that the doctors had only six months to arrange things, whereas the chemists had only completed eighteen months of a five-years' contract.

Mr. SPURR said they had nothing to "grouse" about except that payment of cheques might be made on the first of the month. He would say "Hands off the N.P.U.!"

Mr. GREENWOOD said he could not understand why C.F. chemists still persisted in selling lines that only gave them 6 per cent. profit. He asked how an offer of help could be a discredit.

Mr. MALLINSON said that the chemists were refusing to sell small-margin profit lines to a degree, and he hoped that more and more would adopt this attitude. The offer of help was not necessary. The officials of the Society had already been in conference with the N.P.U. The N.H.I. Committee consists of eighteen panel chemists and two company chemists' representatives; what help could they need?

Mr. HUTCHINSON asked if the time was not ripe for the extension of N.P.U. to all chemists.

Mr. MALLINSON said that this extension had been tried, but only 200 joined, and the N.P.U. could not fulfil the services that these people required.

Mr. LANDER proposed a hearty vote of thanks.

Birkenhead Hears a Business Talk

THE Birkenhead and Wirral Pharmacists' Association met recently to hear an address by Mr. H. Chapman (Ayrton, Saunders & Co., Ltd.), on "The Importance of the Tale in Retail," Mr. P. Grant in the chair.

What methods, Mr. Chapman asked, could the pharmacist use to assist his business to keep him? The mere fact that he was keeping a pharmacy was adding 30 per cent. to the cost of distribution. There were 92,000 grocers and provision merchants in this country, 49,000 butchers, 26,000 milk and dairy businesses, and only 12,100 pharmacies. The fact remained that there were about 150,000 retail businesses which could be classed under the word "general" or "mixed," which really meant they were not grocers, nor provision merchants, nor butchers, and sold everything. Another figure he should like them to understand was that the cost of retail distribution in this country was £500,000,000. What government would ever dare to do anything towards decreasing points of distribution? They need not think there could be any relief for the scientific tradesman, as opposed to those who filched business from him just to open a shop. He could not compete with the grocer and provision merchant in his true essential business, but every grocer and every provision merchant could compete with the chemist in all manner of articles. Any of these could apply for and take out a patent-medicine licence. In his view they needed schemes such as the Chemists' Friends scheme more than any other trade in the country. One of the greatest things they could have was not a Pharmacy Bill, but a Pharmaceutical Society strong enough to enforce a change in the method of granting patent-medicine licences.

They had all seen the slogan "It Pays to Advertise." The only truth in that statement was the fact that a good slogan was worth advertising. In advertising, the foremost prin-

ciple was that the "copy" had not to be so written that it could only be understood by a proportion of the people reading it. He asked them to estimate the number of showcards in their shops at the present moment which they had never shown. The owner of a small shop decided to clear out all the advertising material he had used or had no further use for. The contractors told him that there was half a ton. Nevertheless, they should advertise, particularly when they opened a new shop.

He did not think the newspapers were any use for the small pharmacist. He thought a publication sent out by the pharmacist could be usefully used by him. Any chemist would find it worth while to get a duplicator on which he could run off a leaflet describing the service he offered and mentioning a few of the lines he sold. This could be put into parcels which he sent out and would result in more sales. He did not think the screen was a likely medium for pharmacists. Regarding leaflets, the pharmacist should use these, but a form letter would suit him better than a leaflet containing a long list of articles and prices. Window display was allied to pure advertising such as he had described to them. Anything which was moving created attention. There should be a certain simplicity about the window. There should be an inside display of the same goods as those shown in the window. When they were changing their windows they should never leave them empty, but always have a small display. Could these things be done in a concerted way as an Association? He believed that every man who was asked to put 7s. in a central fund would be willing to do it provided the advertising was done in the way indicated. It was announced that there was a profit of £11 10s. and one of £8 3s. from functions in aid of the Benevolent Fund.

Lecture in Biochemistry

AN evening meeting of the Pharmaceutical Society was held in London on December 14, Mr. Thomas Marns (president) in the chair, when Mr. F. Wokes, B.Sc., F.I.C., Ph.C., gave an address on

Biochemistry and Pharmacy

[ABSTRACT]

BIOCHEMISTRY may be briefly defined as the chemistry of living organisms and of certain of their products, a definition which implies close connexions with the two distinct sciences, biology and chemistry. The distinction between biology and chemistry is, however, becoming less definite year by year. More and more of the typical biological phenomena, such as growth, reproduction, and even the activities of the nervous system, are being found to depend on chemical factors.

The earliest chemists were often also biochemists, studying problems involving living organisms, which sometimes yielded facts of great importance in pure chemistry. The work of Lavoisier on respiration and of Pasteur on micro-organisms may serve as examples. It is only within the last few years that the Pharmaceutical Society has provided its members with the opportunity of obtaining a practical knowledge of biochemistry, and only within the last few months that pharmaceutical candidates have been required in their examinations to demonstrate the biological effects of drugs.

INSULIN AND PITUITARY (POSTERIOR) EXTRACT

The first knowledge of the true nature of diabetes was obtained in 1775, when Dobson tasted the urine and blood of a diabetic patient and detected a sweet substance which he termed "sugar." The investigation of diabetic urines gave a great impulse to the development of urine analysis, and the discovery of insulin. Owing to loss of activity in varying amounts during the extraction and purification processes of insulin, batches of the substance prepared by different manufacturers varied widely in their potency. Insulin is peculiar in that variations in its potency are more dangerous to the patient than similar variations in the potency of any other substance used in medicine. A difference of 10 per cent. in the activity of insulin may produce serious consequences to diabetic patients. With most other drugs a much wider range of potency (e.g., 50 to 100 per cent.) can be tolerated.

The first attempts to standardise insulin were based on an animal reaction, but these proved unsatisfactory. The important decision was then made to standardise all samples of insulin by comparing their activity with that of a stable standard preparation. In 1935 the original standard for insulin was replaced by a new standard, a crystalline zinc salt of the purest insulin obtainable. The new standard is about three times as active as the old standard, the unit being the activity in 0.045 mgm. as compared with 0.125 mgm. of the old standard. Next came the introduction of protamine insulin by Hagedorn in 1936. The slow solubility of this substance causes a considerable prolongation of its effect on the blood-sugar. At the present time no standard preparation of protamine insulin is yet available, although the establishment of such a standard is under consideration.

Turning next to pituitary (posterior lobe) extract, the problem encountered is more difficult, but its solution depends on the same principles which solved the insulin problem. More than fifteen years have elapsed since Burn and Dale wrote their monograph on the biological standardisation of pituitary extract. They found a variation of about 8000 per cent. in the potency of a series of five commercial samples of pituitary extract, the strongest being eighty times as active as the weakest. This extraordinary result showed the advisability of enforcing standardisation by legal means, and, combined with results obtained on insulin, digitalis and other substances, led to the introduction of the Therapeutic Substances Act. If the anti-diuretic and the vasoconstrictor activities of pituitary extract are due to the same hormone, as appears probable, any method of assay which measures one activity will also measure the other. At present we are not certain whether it would be advisable to insist on the anti-diuretic assay of all pituitary extract which is to be used for its anti-diuretic activity. Because of the destructive effect of heat on the oxytocic hormone, the sterilisation of pituitary extract presents certain difficulties. Thus, if the manufacturer complies strictly

with the Pharmacopœia, and makes the strength of his extract 10 units per millilitre *before* autoclaving, the strength *after* autoclaving may be 9 or even 8 units per millilitre. For these reasons, some manufacturers adopt the procedure of filling their ampoules with a solution slightly stronger than the B.P. specifies (e.g., 11 units instead of 10 units per millilitre) in order to allow for loss of activity during autoclaving.

APPLICATION OF BIOCHEMISTRY

Insulin provides a good reason for the pharmacist to acquire knowledge of the biochemical methods (blood and urine analysis) used to control its administration, as well as of the composition of foods used in diabetic diets. There are also many other drugs whose intelligent use requires biochemical knowledge. The detection of sulphæmoglobin in the blood may be necessary to control the administration of such simple drugs as Epsom salts, Glauber's salts, or compound liquorice powder to persons on sulphonamide treatment, as it has recently been shown that these may cause hydrogen sulphide to pass from the intestine into the blood, where under the influence of the sulphonamide it combines with hæmoglobin to form sulphæmoglobin.

At the Brighton meeting of the British Pharmaceutical Conference in 1927, Dr. Burn made a strong appeal for the teaching of biochemistry to pharmacists. A further five years were to elapse before this teaching commenced. In 1932 the Pharmaceutical Society took the first step towards the biochemical education of the pharmaceutical student by establishing a Diploma in Biochemical Analysis. Up to the present nearly 180 candidates have presented themselves for examination, and 119 have obtained the Diploma. In a few more years this figure will probably exceed 200.

New subjects are gradually finding their way into the training of the pharmacist. The inclusion of zoology under the heading of biology in the Preliminary Scientific Examination means that every pharmacist who passed this examination not earlier than July, 1940, will know something of the structure of animals, and of the properties and functions of the animal cells on which his medicines exert their effects. Similarly, every pharmacist who passed in all the subjects of the C. and D. examination after April 1936, will have at least some theoretical knowledge of human physiology. It should be noted that in the Qualifying examination there is as yet no *practical* test of the candidates' knowledge of the new subjects, although in the Major examination, and in the Bachelor of Pharmacy examinations, the new subjects occupy roughly a quarter of the total time.

Statistical examination of the new prescriptions dispensed in pharmacies in different parts of the country over a considerable period of years has shown that during the present century there has been a steady increase in the proportion of prescriptions for proprietary articles. Thus, in 1933, the proportion was almost 30 per cent.

If medicines can be manufactured more satisfactorily in a factory, why should the retail pharmacist try to make them himself? His time will be far better spent in learning the physiological action of the medicines he supplies, and especially the biochemical tests which can be applied to measure their effects on the actual patient. Sir Henry Dale, Director of the National Institute for Medical Research, has on several occasions emphasised the importance to pharmacists of interesting themselves in biochemistry. Sir Edward Mellanby, Secretary to the Medical Research Council, in a speech to pharmacists and pharmaceutical students a few days ago, also stressed this point.

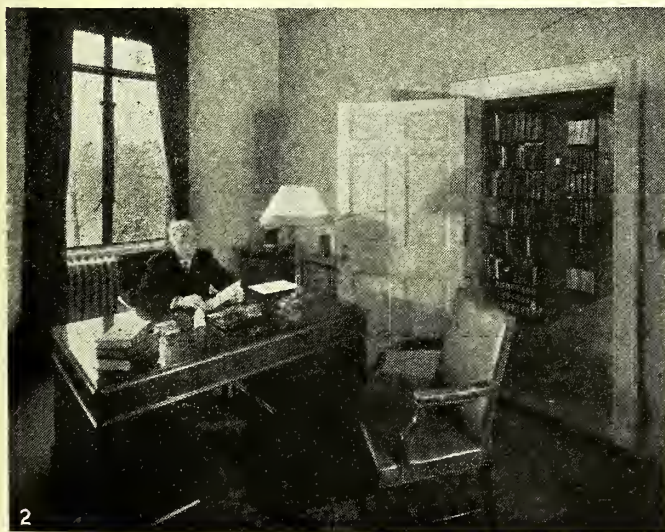
An increasing number of methods of biological standardisation is based on chemical or physical tests which are often applicable to the patient as well as to the experimental animal. Hence, the bulk of the information which pharmacists have to acquire from these new fields of bacteriology, physiology, nutrition and pharmacology might be included in one subject which might perhaps be termed applied biochemistry in relation to pharmacy. It should be our aim to build up this new subject into a living organic whole, and thus enable pharmacy to take a worthy part in the health services of the nation.

A vote of thanks to Mr. Wokes was proposed by Mr. H. Skinner, and seconded by Mr. F. Brown.

America's "Brunswick Square"

THE American Institute of Pharmacy, Constitution Avenue, Washington, D.C., U.S.A., was founded in 1934 by the American Pharmaceutical Association, and an illustration of bas-reliefs at the Institute appeared in the *C. & D.*, 1936, 1, 151. The building was the outcome of a long series of efforts to establish a headquarters for pharmacy in the United States. In this respect it differs from the projected new building of the Pharmaceutical Society of Great Britain, which will be a transfer from an existing building. In fact, this is not the only point of difference, for while the London building will be paid for out of the Society's revenues, past and future, the American Institute was constructed out of the contributions of 14,000 individuals, commercial firms and associations. It was announced this year at the eighty-fifth annual convention of the American Pharmaceutical Association that the building is now free of debt, and that its maintenance costs are lower than would have to be paid as rental for premises of equal size elsewhere. Nevertheless, the two buildings will house so many similar enterprises that English pharmacists will probably examine with close interest the illustrations on this page of various departments of the Institute. Library, museum, journal and information services are already functioning. Research, with the special object of establishing standards for drugs, is to be added. A fund of \$45,000 (roughly £9,000) has been contributed for this purpose by the drug industry and others, and new laboratories, now in preparation, are expected to be opened in the New Year. This sum is in addition to existing research funds, and is to be spent during a period of three years. In addition, a new journal is to be started which will interpret the activities of the Association to U.S. pharmacists and which will be "helpful rather than competitive." The illustrations show: 1, Reading room in the library. 2, Editor's office, with view of library beyond. 3, Part of a collection of carboys in the museum.

Photographs by courtesy of the "American Druggist," New York City.



Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 28 Essex Street, London, W.C.2."

Report on the November Analytical Exercise

THE powder distributed to students on November 16 consisted of equal parts by weight of ammonium ferrous sulphate, potassium chromic sulphate (chrome alum), and ammonium aluminium sulphate (ammonium alum). The calculated composition of such a mixture is:—

| | | | | | | |
|------------------|-----|-----|-----|-----|-----|------|
| Fe | ... | ... | ... | ... | ... | 4.8 |
| Cr | ... | ... | ... | ... | ... | 3.5 |
| Al | ... | ... | ... | ... | ... | 2.0 |
| K | ... | ... | ... | ... | ... | 2.6 |
| NH ₄ | ... | ... | ... | ... | ... | 4.4 |
| SO ₄ | ... | ... | ... | ... | ... | 43.2 |
| H ₂ O | ... | ... | ... | ... | ... | 39.5 |

100.0

The presence of a faint trace of chloride was indicated by the reaction of silver nitrate with a solution of the powder in dilute nitric acid.

Samples of the powder were distributed to eighteen students, and seventeen reports were returned for examination. The radical of sulphuric acid was the only radical recognised in every case. Failures in the detection of basic radicals were:—iron, 1; chromium, 3; aluminium, 12; potassium, 3; and ammonium, 4. Two students reported the iron as present only in the ferric state while one merely reported iron without mentioning its state of oxidation. Water of hydration was unreported in four cases.

While solution or separation difficulties were not involved, the analysis required care on account of the very large proportions in which water of hydration and the radical of sulphuric acid predominated and the relatively small proportions in which all five of the basic radicals were present, as exhibited in the figures given above. These latter radicals were, on the whole, satisfactorily detected, with the exception of the ammonium, which need not have been overlooked if tested for in a sufficiently delicate manner, and of the aluminium, which was the one most likely to escape detection. When the iron-group precipitate was heated with water and sodium peroxide, the ferric hydroxide remained unchanged and could be removed by filtration, while the chromic hydroxide, after oxidation, passed into solution as chromate and the aluminium hydroxide was dissolved as aluminate in the filtrate. To test this now strongly alkaline filtrate for aluminium it was necessary to add enough ammonium chloride to interact with the whole of the sodium aluminate and excess of sodium hydroxide present, and then to boil off the liberated ammonia. This boiling off of the ammonia was indispensable since aluminium hydroxide—the form in which the aluminium was to be precipitated—is quite appreciably dissolved by an ammoniacal solution, and when present in small quantity, as in the present instance, was likely to be held in solution completely in the cold. Failure to carry out accurately the procedure necessary at this stage seems to have been the cause of the large number of cases in which aluminium was reported absent.

Renewed reference is made here to the application of preliminary tests because their omission or insufficiency is responsible for many easily avoidable errors as well as, incidentally, for loss of marks. It is considered that there are always at least twelve preliminary tests that might with advantage be applied to an unknown mixture, while, depending upon circumstances, there may be twenty or more. As a rule, reports upon twelve are looked for in students' analyses, and this number, when offered, is accepted as sufficient if the results are correctly interpreted. Even in some of the best reports received in the present analysis, not more than five or six such tests were reported, and nine was a maximum number.

PRIZES

The First Prize for the best analysis has been awarded to:—
BASIL SKINNER, St. Petroc, Sidmouth.

The Second Prize has been awarded to:—

FRANK S. EVANS, 6 Brooklands, Bridgetown, Totnes, Devon.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSIS

1. Correspondents who have not passed in Chemistry:—

| | | | | | |
|-------------------------|----|------------|-----|-----|----|
| B. Skinner (1st Prize) | 93 | Keneu | ... | ... | 59 |
| F. S. Evans (2nd Prize) | 91 | Döbereiner | ... | ... | 56 |
| Proton | 83 | D.L.T.A. | ... | ... | 44 |
| Usque Conabor | 83 | No. 21 | ... | ... | 30 |
| 574 | 78 | Ketone | ... | ... | 30 |
| Erimus | 60 | | | | |

2. Correspondents who have passed in Chemistry:—

| | | | | | |
|-----------------|----|--------|-----|-----|----|
| Jay Kay | 94 | Tatcho | ... | ... | 85 |
| Diplogen | 91 | Ay eye | ... | ... | 80 |
| E tan e epi tan | 89 | 888 | ... | ... | 76 |

TO CORRESPONDENTS

BASIL SKINNER.—Your report forms an excellent start in the tournament. Your marks would have been materially higher if you had made and reported upon a more complete preliminary examination. See the general remarks.

FRANK S. EVANS.—Note that ferrous ammonium sulphate is not classed amongst the alums. Read the second sentence of the immediately preceding reply.

PROTON.—So far as can be learned from your report, you did not apply any test for aluminium; but see, in any case, the note in the general remarks regarding the detection of this metal.

574.—Are you quite sure that the amount of ammonium chloride added to the liquid in which you made the final test for aluminium was sufficient to interact with the whole of the alkali present, and did you boil off the liberated ammonia?

ERIMUS.—You mention a copious white precipitate, insoluble in nitric acid, produced on adding silver nitrate to a solution of the powder. In actual fact, the addition of silver nitrate to a solution in nitric acid yielded nothing more than a faint opalescence on standing for some time. The well-marked reaction that you observed may have been attributable to an insufficiently cleansed test tube. You do not appear to have tested for iron in the ferrous state.

KENEU.—It is remarkable that you should have missed the iron when examining the iron-group precipitate. Study the group practically in the laboratory, employing a solution that contains the three metals side by side.

DÖBEREINER.—Had you made an examination that included a few of the more common preliminary tests, it is almost certain that you would have detected, by their aid alone, the potassium and ammonium as well as the abundant water of hydration.

D.L.T.A.—Follow the advice given to "Keneu" above regarding a practical study in examining a solution of the three iron-group metals. The calcium you found may have been introduced in tap water.

No. 21.—The tests you report would appear to establish mercury and nickel as constituents of the powder, but nevertheless both were absent. Can some contamination of the powder have occurred?

KETONE.—Mercurous salt, a sulphide, and a phosphate were all alike absent. It is quite unaccountable how you got the reactions that you describe as indicating the presence of these constituents.

DIPLOGEN.—Why did you omit the simple preliminary test of heating the powder in a narrow dry tube?

TATCHO.—In testing for acidic radicals you acidified the sodium carbonate extract with sulphuric acid, added ferric chloride, and not did obtain any precipitate; but note that the precipitates procurable by ferric chloride would as a rule fail to appear in presence of sulphuric acid—ferrocyanide being a notable exception.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, December 16

BUSINESS CONTINUES on a rather restricted scale and conditions are not now likely to show any marked improvement in the way of demand until the New Year. The general tone of the markets is quite steady, with a few weak features and a corresponding number of firm items. The PHARMACEUTICAL CHEMICALS markets report nothing more than a moderate routine business. The Convention scale of prices for AMIDOPYRINE has been advanced. The agreed values of BARBITONE show a further reduction, while the Convention scale of values for Phenazone has been raised. The demand for EPHEDRINE HYDROCHLORIDE (B.P.) is reported to have been negligible this week. VANILLIN is quoted unchanged.

Crude Drugs

The aggregate of business being transacted in these commodities continues fairly satisfactory and values are keeping quite steady, with one or two exceptions. Shippers' quotations for new crop AGAR are being maintained. Curaçao ALOES are very firm on spot, with no indications of any shipment offers. Canada BALSAM is comparatively cheap as quoted on spot; shipment prices firm. The shipment market for green Aleppy CARDAMOMS remains quiet and at cheap prices. Spot demand for CASCARA SAGRADA continues disappointing. Bergen reports further weakness in the shipment market for COD-LIVER OIL; exports, however, are well up on the figures of recent years. The BRITISH medicinal oil is steady at the increase recorded last week. Sudan GUM ACACIA is again quoted cheaper, spot and forward; but the market is perhaps tending steadier. HYDRASTIS is a very strong market. A little more inquiry this week for HONEY. Fair spot demand for MENTHOL; market continues steady. The import duty on PEPPER has been reduced. Rough round RHUBARB is fully steady and now in limited supply; no shipment offers. Spot and shipment business in SENEGA is quiet. The demand for SENNA has been slow, with all descriptions quoted unchanged. SHELLAC is easier on a lifeless market. Business in TRAGACANTH has been of small account; London quotations are maintained. BEES' WAXES are steady. A further decline in the values of CARNAUBA WAXES is recorded.

Essential Oils

Business has been none too satisfactory this week; values, on average, are fairly steady. Small sales from limited spot stocks of ANISE (STAR); no shipment offers. Conditions in the shipment market for new crop BERGAMOT are not entirely satisfactory to most importers. The shipment markets for Java and Ceylon CITRONELLA are reported steadier, but there has not been much business for this market; Ceylon seems short on spot. GERANIUM oils are again easier and in poor demand. A fair amount of interest in new crop Sicilian hand-pressed LEMON, and shipment prices are fully maintained. The cheap speculative Paris sellers of the coming new crop French Guinea ORANGE are not so much in evidence; meanwhile the few offers from the source are fully maintained. PALMAROSA is reported slightly dearer for shipment; spot stocks are limited. Good business is reported in Japanese PEPPERMINT, with values keeping very steady.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

| Centre | Quoted | Par | December 9 | December 16 |
|----------------|-------------|---------|------------|-------------|
| Amsterdam ... | Fls. to £ | 12·107 | 8·98½ | 8·98 |
| Berlin ... | Mks. to £ | 20·43 | 12·39 | 12·39 |
| Brussels ... | Belgas to £ | nominal | 29·40 | 29·40 |
| Copenhagen ... | Kr. to £ | 18·159 | 22·40 | 22·40 |
| Lisbon ... | Esc. to £ | 110 | 110½ | 110½ |
| Madrid ... | Ptas. to £ | 25·24½ | nominal | nominal |
| Milan ... | Lire to £ | 92·46 | 95 | 95 |
| Montreal ... | Dols. to £ | 4·86½ | 4·99½ | 4·99½ |
| New York ... | Dols. to £ | nominal | 4·99½ | 4·99½ |
| Oslo ... | Kr. to £ | 18·159 | 19·90 | 19·90 |
| Paris ... | Fr. to £ | 124·21 | 147½ | 147½ |
| Prague ... | Kr. to £ | 164·25 | 142 | 142½ |
| Stockholm ... | Kr. to £ | 13·150 | 19·40 | 19·40 |
| Warsaw ... | Zloty to £ | 43·38 | 26½ | 26½ |
| Zurich ... | Fr. to £ | 25·2115 | 21·60 | 21·60 |

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

BUSINESS continues on routine lines, with the markets generally quiet. Convention prices for Amidopyrine and Phenazone have been advanced and the scale of prices for Barbitone reduced.

AMIDOPYRINE.—Convention prices have been advanced; the new scale is as follows:—Crystals, two cwt., 9s. 4d.; one cwt., 9s. 8d.; less than one cwt., 10s. per lb., with powder 2½d. per lb. extra. Quoted ex store, London.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Convention prices have been reduced as follows: two cwt., 8s. 1d.; 56 lb., 8s. 4d.; small parcels, up to 8s. 7d. per lb., ex store, London.

BENZOIC ACID (B.P.).—Steady, fair business: bulk quantities at about 1s. 9d. per lb., ex works or stores; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' scales of prices are unchanged: carbonate, not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; 4 lb., 8s.; less than 4 lb., 8s. 6d. per lb.

BORAX (B.P.).—Makers' prices steady: granulated, £24; crystals, £25; powdered, £25 10s.; extra fine powder, £26 per ton, in one-cwt. bags, carriage paid buyers' works for minimum 1-ton lots. Extra for smaller quantities. Commercial quality, £8 per ton less for all descriptions.

BORIC ACID (B.P.).—Makers' prices continue steady: granulated, £36 10s.; crystals, £37 10s.; powder, £38 10s.; extra fine powder, £40 10s. per ton, in one-cwt. bags, carriage paid to buyers' works on 1-ton minimum. Commercial quality, £8 per ton cheaper for all descriptions.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies, 27-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained, as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 5½d.; one cwt., 1s. 7d. per lb., f.o.b.

CALCIUM LACTATE.—Values steady, moderate demand: one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Home makers' scale of prices continues steady: duty-paid crystals in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars, one penny per lb. extra.

CHLOROFORM.—Makers' prices steady: two cwt., 2s. 5½d. per lb.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums, ½d. per lb. less. Small bottles extra, from 5d. per lb. for ¼-lb. bottles to 1d. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Values are maintained: British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported materials are competitive.

COCAINE.—British makers' prices for wholesale bulk quantities are quoted as follows:—HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 6d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows:—HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; ½ oz. and less than 1 oz., 40s. 8d.; ¼ oz. and less than ½ oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to resell any quantity at below the scale price for such quantity current at the time of resale. Export prices vary according to destination.

CREAM OF TARTAR.—Market is steady: British materials, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

EPHEDRINE.—Business seems to have been of very little importance this week, and ideas of the value of Hydrochloride, B.P., vary to some extent. Pure Alkaloid is nominally unchanged at 27s. per oz.

GALLIC ACID.—Rather quiet, quoted unchanged: one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

GUAIACOL CARBONATE.—Dealers' prices are in the region of 8s. 10d. per lb., and less for bulk quantities.

GUAIACOL (CRYSTALS).—In 14-lb. jars, 9s. 10d. per lb.; in 7-lb. bottles, 9s. 10½d.; in 1-lb. bottles, 10s. 3½d. per lb.

LACTIC ACID (B.P.).—Quiet demand: quantities in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 10½d. per lb., as to quantity.

MERCURIALS.—Makers' scales of prices for these salts are unchanged. CHLORIDE, B.P. (CAMOMILE).—One cwt., 5s. 11d.; less than one cwt., from 6s. per lb.

METHYL SALICYLATE.—Makers' scale of prices, moderate business: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 2½d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers finding business slow and competitive: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8d. per lb.

PARAFORMALDEHYDE.—Market quiet: 100 per cent. powder, quantities in kegs, 1s. 1d. to 1s. 1½d.; smaller parcels, up to 1s. 4½d. per lb., as to quantity.

PARALDEHYDE.—Quantities in demijohns from 1s. 1d. and smaller lots in winchesters about 1s. 4d. to 1s. 6d. per lb.

PEPSIN.—Prices for the 1/2,500 continue steady, with 50 lb. or less quoted at 10s. per lb. net, ex store.

PHENACETIN.—Makers' prices unchanged: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. up to 3s. per lb., as to quantity.

PHENAZONE.—Continental prices have been advanced: the new scale is as follows:—Crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; less than one cwt., 7s. 6d. per lb., with powder 2½d. per lb. extra. Quoted duty paid, ex store, London.

PHENOLPHTHALEIN.—Occasional small business: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

POTASSIUM PERMANGANATE (B.P.).—Fair business, quoted unchanged: bulk quantities, in drums, 9d.; druggists' parcels, from 10d. to 1s. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Dealers' spot prices are unchanged at about 6s. 1½d. to 6s. 3d. per lb., as to quantity.

PYROGALLIC ACID.—Values are steady: crystals, 28 lb., 7s. 3d.; 14 lb., 7s. 9½d.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; dihydrochloride, 3s.; hydrobromide, 2s. 8½d.; dihydrobromide, 3s.; valerianate, 3s.; hydrophosphate, 4s.; alkaloid, 3s. 10½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—British material only available: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. 6d. per lb.

ROCHELLE SALTS.—Makers' prices are steady:—

| | Pulv. Sod. Pot. Tart. B.P. | Pulv. Seidlitz | Double Seidlitz |
|---------------------------------|-------------------------------|-------------------|--------------------|
| | Per cwt. s. d. | Per cwt. s. d. | Per cwt. s. d. |
| Under 1 cwt. ... | 85 0 | 68 0 | 75 6 |
| Under 5 cwt. ... | 82 6 | 66 3 | 73 3 |
| Over 5 cwt. in one delivery ... | 80 0 | 64 3 | 71 0 |

Soda, pot. tart. cryst. at 2s. 6d. per cwt., extra to powder, net, 14 days. Special prices for quantities. Contracts accepted subject to a rise and fall clause.

SACCHARIN.—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—A modest business, quoted unchanged: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11½d.; 7 lb., 2s. 0½d.; 4 lb., 2s. 2½d. per lb.

SALOL.—Keen prices, with inquiry limited: from about 2s. 3d. to 2s. 7d. per lb., as to quantity.

SODIUM BENZOATE (B.P.).—Fair inquiry, steady at former values: bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 7½d. to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—The scale of prices is unchanged: spot, one cwt., 11s.; 28 lb., 11s. 3d.; 14 lb., 11s. 6d.; 7 lb., 11s. 9d.; smaller parcels, up to 12s. 6d. per lb. Barbitone is cheaper.

SODIUM SALICYLATE (B.P.).—Business remains quiet: makers' prices unchanged: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

SULPHONAL.—Dealers' prices keen, business slow: crystals or powder, two cwt., 15s. 5d.; one cwt., 15s. 11d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7½d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Market continues steady: British makers quote at 1s. 1½d. per lb., less than 5 per cent. discount. Dealers offering foreign materials at competitive prices.

VANILLIN.—Convention prices continue at the reduction recently recorded: five cwt., 12s. 5d.; one cwt., 12s. 8d.; 56 lb., 13s.; less than 56 lb., 13s. 2d. per lb.

Crude Drugs, etc.

AGAR.—Moderate spot business at steady values; shipment quotations are being maintained, but little business doing in this market: spot, Kobe No. 1, 3s. 7½d. to 3s. 9d., as to quality; No. 2, 3s. 6½d.; Yokohama No. 1, 3s. 6d. per lb.; shipment, new crop, February-March, Kobe No. 1, 2s. 8d. paid; No. 2, March-April, 2s. 6d.; Yokohama No. 1, 2s. 5½d. per lb., c.i.f.

ALOES.—A little doing at full prices in Curaçao; no shipment offers: Cape, spot, 63s. to 64s.; shipment, 62s. 6d. to 63s., c.i.f. Curaçao, spot, coarse livery, manufacturing quality, 140s.; smooth black, turning, 145s.; livers, from 147s. 6d. to 155s. per cwt., ex store.

Shipments from the Cape during the period January-September, 1937, totalled 624,332 lb. valued at £13,836, compared with 490,764 lb. valued at £9,266 in the corresponding nine months of 1936.

AMMONIACUM.—Fairly clean pale drop quoted at about 1s. to 1s. 1d. per lb., in bond.

ANNATTO SEED.—Business quiet, supplies small: Madras, 3½d.; Jamaican, fair colour, 4½d. per lb., ex store.

ANTIMONY.—Chinese crude, spot, £45; shipment, £39, c.i.f. English regulus, spot, £81 to £82 per ton.

BALSAMS.—Some inquiry for Canada on spot, with holders' prices very firm in the region of 5s. 6d. per lb.; shipment firm at 6s. 2d., c.i.f. Other descriptions unchanged and quiet.

BELLADONNA.—Some small spot business: leaves, 55s. to 57s. 6d.; root, 47s. 6d. to 50s. per cwt., spot, as to quantity.

BENZONIN.—Sumatra is quoted on spot from 70s. to 95s. per cwt. Siam, medium almonds, £26; bean and pea, £22; pea, £20; grains, £15 per cwt.

BUCHU.—Spot demand limited to odd bale business, with rounds from 1s. 10d. to 2s. and ovals from 1s. 8d. to 1s. 9d. per lb., as to quality. No indication of new crop prices, but prompt shipment, presumably old crop, offered at 1s. 9½d. per lb., c.i.f.

Shipments from the Cape during the period January-September, 1937, totalled 211,396 lb. valued at £16,301, compared with 193,066 lb. valued at £12,588 in the corresponding nine months of 1936.

CAMPHOR.—Limited business, with values quite steady. Japanese manufacturing BB grade, £8 10s. per 100 lb. Japanese spot, tablets, 2s. 7½d.; powder, 2s. 4d.; slabs, 2s. 3½d. per lb., ex store; shipment, tablets, 2s. 3½d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¼ oz., 3s. 6d. per lb.

CANTHARIDES.—Only occasional inquiry: spot, Chinese, 2s. 3d. per lb. as to quantity; shipment, 1s. 8d.

CARDAMOMS.—The shipment figure for green Aleppy is barely held at 2s. 7d., c.i.f., with nothing doing. Bombay seed, shipment, about 4s. 1d., c.i.f. Mangalore seed, shipment, 3s. 5d. per lb., c.i.f. Most of the parcel of Duckwari recently catalogued has been sold.

CASCARA SAGRADA.—Market remains generally quiet: 1937 peel, 48s. 6d. per cwt., c.i.f., with spot holders asking 55s. to 57s. 6d. per cwt.; old bark, from 65s. to 70s. per cwt., ex store.

CLOVES.—Market is steadier as quoted: Zanzibar, spot, 8d.; shipment, December-January, 7½d. per lb., c.i.f. Madagascar, in bond, 6½d.; shipment, December-January, 5½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended December 11 were 26, and the deliveries 28, leaving a stock of 1,507. From January 1 to date the landings of Zanzibar have been 5,079 and the deliveries 4,872. Landings of Madagascar for the week ended December 11 were nil, and the deliveries 111, leaving a stock of 2,724. From January 1 to date the landings of Madagascar have been 5,276 and the deliveries 3,718 packages.

ZANZIBAR CLOVES.—Supplies and exports during the three months July 1 to September 30, 1937, were as follows:—

| Supplies | | Exports | |
|----------------------|---------------|-------------------------|---------------|
| Zanzibar Produce ... | 902,517 lb. | To all destinations ... | 1,810,252 lb. |
| Pemba Produce ... | 1,561,245 lb. | | |

The destinations of exports were as follows:—

| | Bales. | lb. |
|----------------------------------|--------|---------|
| Dutch East Indies ... | 6,505 | 910,700 |
| Bombay and Indian Ports ... | 843 | 117,975 |
| America, North-South ... | 1,256 | 175,880 |
| United Kingdom and Continent ... | 3,110 | 435,400 |
| All other destinations ... | 1,216 | 170,297 |

CLOVE-STEMS.—Supplies during the quarter were 448,573 lb. and the distillery absorbed 499,738 lb. The quantity coming on the market was purchased by the Association at prices ranging from Shs. 6/50 to Shs. 7/- per 100 lb. The quality showed considerable improvement. The export of clove stem oil during the quarter was 30,096 lb.

COD-LIVER OIL.—Bergen reports shipment market continues dull and rather unsteady. Exports to December 13 totalled 92,384 barrels, compared with 87,331 barrels on the same date in 1936 and 86,193 barrels in 1935: finest Lofoten steam refined non-freezing medicinal oil, 96s. to 98s. per barrel, c.i.f., London. Small lots on spot, about 136s. to 137s. 6d. per barrel, ex store, duty paid. British finest medicinal oil continues at the advance recorded last week, with the quotation now at 115s. per 25-gallon drum, delivered U.K., with rebates for 25 or more drums.

COLOCYNTH.—Spot quotations for bulk supplies of pulp at 1s. 1d. to 1s. 2d. per lb., as to quantity and quality.

DANDELION ROOT.—Supplies of good clean Continental root at about 70s. to 72s. 6d. per cwt., ex store.

DIGITALIS LEAVES.—Small parcels are available on spot at about 95s. per cwt., ex store.

ERGOT.—Market is still neglected, with values nominally unchanged. Spanish/Portuguese, spot, 5s. 2d. to 5s. 3d. per lb. No reliable shipment offers, but 5s., c.i.f., is suggested.

GENTIAN.—Dealers are doing usual small parcel business on spot, with values about 45s. to 48s. 6d. per cwt., as to description and quantity.

GINGER.—West African is quiet: spot, 54s.; for arrival, 41s. per cwt., c.i.f. Jamaican, small grinding, in bags, 62s. 6d.; bold, in barrels, 82s. 6d. per cwt., ex store.

GUM ACACIA.—Market is still lacking a normal demand, but values are tending steadier; Kordofan, cleaned sorts, spot, 44s.; shipment, 41s. 6d. per cwt., c.i.f.

HENBANE.—Restricted demand, quoted at about 75s. per cwt., ex store.

HENNA.—Market remains dull: Egyptian, green, 32s. to 33s.; brown, 28s. 6d. per cwt., ex store, as to quantity.

HONEY.—Rather more inquiry this week and some business is reported, values quite steady: Jamaican, dark manufacturing, 39s. up to 50s. for pale set. Californian, white clover, 52s. 6d., duty paid: Canadian, new crop, in small supply at 57s. 6d. to 60s. per cwt.

HYDRASTIS.—Spot market is firm, with holders quoting 15s. to 15s. 3d. per lb.; shipment is cabled at 15s. 3d. per lb., c.i.f., for new crop.

IPCACUANHA.—A quiet market, but holders of good-quality root want full prices: Matto Grosso, B.P. test, spot, 8s. 3d.; shipment, if available, 8s. per cwt., c.i.f.

IRISH MOSS.—Occasional spot demand: small spot parcels from 45s. to 60s. per cwt. for druggist qualities, ex store.

JUNIPER BERRIES.—Supplies of good sifted berries quoted on spot at about 27s. 6d. per cwt., ex store.

KOLA NUTS.—African halves are quoted on spot at about 3d. per lb., ex store. West Indian, good sound St. Lucia, 4½d. to 4¾d. per lb., ex store.

LAVERFLOWERS.—New crop, good blue flowers, quoted at about 130s. per cwt., ex store.

LIQUORICE ROOT.—Medium quality decorticated quoted at about 37s. 6d. per cwt. Natural root is valued at about 12s. 6d. per cwt., ex store.

LOBELIA HERB.—A limited inquiry dealt with: 6½d. to 7d. per lb., as to quantity and seller; shipment rather firmer.

LYCOPDIUM.—Business slow, values steady: spot, about 5s. 4d. to 5s. 6d. per lb., ex store.

MANNA.—Dealers quote small parcels of new crop finest selected at 3s. 6d. per lb., in 1-lb. tins.

MENTHOL.—Not particularly much business at the moment; market, however, is steady: spot, K/S brands, 13s. 6d. to 13s. 9d., as to seller; in bond, 11s. 9d. to 12s.; afloat, 11s., c.i.f. Japanese shippers quote January-March, 10s. 9d. per lb., c.i.f.

MERCURY.—Market is quiet and quoted unchanged. London stocks available: quoted at 64 dollars per bottle, f.o.b. Continent: spot, £13 to £13 os. 6d. per bottle, ex store.

OPIMUM.—Market has been dull: Turkish, original cases of 170 lb., 12½-13 per cent., 1s. 1¾d.; Persian, 12 per cent., 1s. 1d. per unit, landed and duty paid.

PEPPER.—Values are level on the week, business quiet. Lampong, in bond, 2½d.; shipment, January-March, 2½d.; March-May, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, January-March, 32s., c.i.f. Aleppy, spot, 3½d.; shipment, January-March, 32s., c.i.f. White Muntok, in bond, 3½d.; shipment, December-January, 3½d.; January-March, 3½d., c.i.f. London Terminal Market: Black, December, 2½d.; March, 2½d.; May, 2½d. White, December, 3½d.; March, 3½d.; May, 3½d. per lb. Import duty reduced.

PIMENTO.—Business has again been slow: spot, 7½d. per lb.; shipment, January-March, 65s. per cwt., c.i.f.

RHUBARB.—A small spot business, with limited supplies of rough round at 2s. 6d. to 2s. 7½d. per lb., ex store. Shensi, old parcel, 4s. 6d.; recent arrival, from 5s. 6d. per lb. No shipment offers. China Rhapontica, 8½d. to 9d. per lb., ex store.

RUBBER.—Market rather quiet, with values about level on the week. Standard ribbed smoked sheet, spot, 7½d.; December, 7½d.; January, 7½d.; February, 7½d.; March, 7½d.; April-June, 7½d.; July-September, 7½d. per lb.

SAFFRON.—Small business. Genuine Valencia quoted at about 70s. per lb., ex store.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 62s. 6d.; Bulgarian, 42s. 6d.; CANARY.—Market remains quiet and unchanged. Prices quoted are duty paid: Mazagan, 19s. 6d.; Turkish, 18s. 6d.; Plate, 17s. 6d., Spanish, 25s. to 37s. 6d., according to quality. CARAWAY.—Dutch, 34s. 6d., spot, duty paid; 25s. 6d. quoted, f.o.b. Holland. CORIANDER.—Market quiet. Morocco, on spot, is offered at 26s., duty paid; for shipment, 22s., c.i.f., is quoted. CUMIN.—Spot, Malta, 45s., duty free; Morocco, 43s., duty paid.—FENNEL.—Spot, Indian, 30s.; Persian, 25s. FENUGREEK.—Morocco, on spot, 13s. 6d., duty paid. MUSTARD.—English, 19s. to 28s. 6d., according to quality.

SENEGA.—Market has again been quiet: spot, about 2s. 2d. to 2s. 3d., as to seller; shipment, new crop, 2s. 2d. per lb., c.i.f.

SENNA.—Business has been unimportant; all descriptions are quoted about unchanged: Tinnevely, fair green quoted as follows: Bold at 6½d., No. 1 at 5½d., No. 2 at 3½d., No. 3 at 2½d., No. 4 at 2½d. per lb. Tinnevely hand-picked pods are available at 3½d. to 5d., according to quality, with manufacturing Tinnevely pods in small supply on spot at about 2½d. per lb., ex wharf, London. Alexandrian hand-picked pods: Finest quality is now extremely difficult to find, spot quotations are as follows: Selected at 5s. to 5s. 3d., No. 1 at 3s. 6d. to 4s., No. 2 at 2s. 3d. to 2s. 9d., No. 3 at 1s. 6d. to 2s. per lb., with ordinary low grades offering at 1s. to 1s. 3d. per lb., ex wharf, London.

SHELLAC.—At the lower values the market is steadier: spot, standard TN orange, 42s. to 45s.; fine orange, 57s. 6d. to 100s.; pure button, 55s. to 60s. per cwt. For delivery, TN, December, 41s. 6d.; March, 43s.; May, 44s. For arrival, TN, January-February, 42s. per cwt., c.i.f.

SLIPPERY ELM BARK.—Market has been quiet: grinding quality at 6½d.; clippings at 8½d.; selected loose slabs at 1s. 2d.; 5-lb. wired bundles of selected quality, 1s. 9d. per lb., ex store.

SIRAMONIUM LEAVES.—Some good green Hungarian leaves available in small lots on spot at 37s. 6d. per cwt., ex store.

SIROPHANTHUS SEED.—Some recent arrivals of 100 per cent. Kombé are quoted at about 3s. 6d. per lb.

TOKKA BEANS.—Rather quiet, with spot supplies of fair frosted Para beans limited: quoted at about 3s. 3d. to 3s. 4½d. per lb.; shipment, 3s. 3d. per lb., c.i.f.

TRAGACANTH.—Business in this commodity has again been quiet, with the London prices for all grades of gum quoted unchanged.

TURMERIC.—It is reported that a fair quantity of good quality Madras finger changed hands this week at 30s. per cwt., and a premium is wanted for this parcel. Supplies continue very restricted, and there seems to be only one or two possible sources for bulk supplies, and it is very doubtful if 30s. would be accepted. No shipment offers on the London market.

VALERIAN ROOT.—Dealers are quoting small spot parcels at about 40s. per cwt., ex store.

WAXES.—BEES.—Market about steady, with offers from the sources now becoming restricted: Calcutta, bleached, spot, 140s.; shipment, December-January, 137s.; ordinary quality, spot, 115s.; shipment, December-January, 113s. 6d., c.i.f. Benguela, in bond, 108s.; shipment, December-January, 105s., c.i.f. Conakry, spot, 112s. 6d.; shipment, 105s., c.i.f. Dar-es-Salaam, spot, 120s.; shipment, December-January, 115s. per cwt., c.i.f. CARNAUBA.—Quotations are slightly easier, market quiet. Fatty grey, spot, 164s.; shipment, afloat, 157s. 6d., c.i.f.; January-February, 140s., c.i.f. Chalky grey, spot, 163s.; afloat, 155s.; shipment, January-February, 137s. 6d. Primeira, spot, good quality, 210s.; afloat, 200s.; shipment, December-January, 175s., c.i.f. Mediana, spot, 190s.; shipment, 175s., c.i.f.

Essential Oils, etc.

A RATHER quiet business continues in these products, with one or two rather weak features. Citronella oils are reported steadier forward. Geranium oils are dull and easier. Sicilian hand-pressed lemon is very steady. Good spot demand for Japanese peppermint.

ALMOND.—Market steady, demand quiet: foreign expressed, cwt. lots, 2s. 8d.; smaller packages, up to 3s. per lb.; English oil at competitive prices.

ANISE (STAR).—The spot market continues fully steady on a restricted supply. There are no shipment offers of Star or Tonquin oil: spot, tins, 5s. 6d.; drums, 5s. 3d. per lb., ex store.

BAY.—Occasional small business: 49 to 50 per cent., 4s. 7d. to 4s. 9d.; 59 to 60 per cent., 4s. 9d. to 4s. 10½d. per lb., as to quantity.

BERGAMOT.—It is reported that representatives of the Consortium have recently visited London and that fairly considerable business has been effected at a keen price. Most shippers seem to be unable to quote for any quantity, but we are advised the Consortium price is in the region of 15s. per lb., c.i.f., for fair quantities. The

following unofficial figures of production during recent years are of interest:—

| | | |
|-----------|---------|---------------|
| 1933-34 | | 132,490 kilog |
| 1934-35 | | 146,100 kilog |
| 1935-36 | | 107,382 kilog |
| 1936-37 | | 62,390 kilog |
| 1937-38 | | 150,000 kilog |
| estimated | | 150,000 kilog |

It is certain that shipments during 1937 were more than the oil production of 62,390 kilog.; the balance of exports was probably old oil. The carry-over at the beginning of this season must have been negligible, but this is balanced by the record production, estimated from 150,000 to 170,000 kilog.

BOIS DE ROSE.—Dealers' spot quotations unchanged: drums, 6s. 1d.; smaller packings, up to 6s. 4½d. per lb.; shipment, 1 dollar 50 cents, c.i.f. London.

CAJUPUT.—Not much business, quoted unchanged: B.P., 2s. 6d. to 2s. 9d. per lb., as to quantity; shipment, 2s. 2d. per lb., c.i.f.

CANANGA.—Market remains unsteady, with business quiet: spot, about 6s.; shipment, December-January, 5s. 2d. per lb., c.i.f., in drums.

CARAWAY.—Market neglected except for small spot business: Dutch rectified, 7s. 9d.; crude, 7s. 4d. per lb., landed and duty paid.

CASSIA.—A quiet spot demand, with values maintained: spot, 3s. 7½d. to 4s., as to quantity. No reliable shipment offers, last price was 3s. 5d., c.i.f.

CEDARWOOD.—Business slow at competitive prices: African, in drums, 11½d.; smaller packages, up to 1s. 3d. per lb. American, in drums, 11½d.; smaller packages, up to 1s. 3d. per lb., ex store.

CINNAMON LEAF.—The shipment market for Ceylon oil is quoted unchanged at about 2s. 6d. per lb., c.i.f., with very little doing.

CITRONELLA.—As indicated last week, these markets are better. Ceylon oil seems short on spot, with near afloat being called for. Java "shorts" have been covering. Ceylon oil is also steadier on quotation: Ceylon, spot, drums, 1s. 9d.; smaller parcels, up to 2s.; shipment, drums, 1s. 5½d. to 1s. 6d. per lb., c.i.f. Java, spot, drums, 2s. 1d. to 2s. 2d.; smaller parcels, up to 2s. 7d.; shipment, drums, 1s. 8½d. to 1s. 9d. per lb., c.i.f.

CIVET.—Spot supplies continue restricted, with most holders looking for 20s. to 21s. per oz. for small lots. No shipment offers from the source.

CLOVE.—Shipment quotations for Madagascar oil are in the region of 2s. 8d. per lb., c.i.f., with the demand quiet. Zanzibar stem oil is offering at about 3s. 2d. per lb., c.i.f. Exports of stem oil from Zanzibar during the three months July-September, 1937, totalled 30,006 lb.

EUCALYPTUS.—Spot values for good-quality Australian seem steadier. Japanese oil and some Spanish (not B.P.) offering at keen prices: Australian, 70 to 75 per cent., 1s. 7d. to 1s. 7½d., in drums; 1s. 8d., in tins; 80 to 85 per cent., 1s. 10d. per lb., in drums, if available; higher prices for small lots on spot. Shipment, 70 to 75 per cent., 1s. 5½d., in drums; 1s. 6½d., in tins; 80 to 85 per cent., 1s. 7½d. per lb., c.i.f., for December shipment.

GERANIUM.—Values are again easier, with business of little account: Bourbon, spot, 14s. to 14s. 3d.; shipment, 12s. 10½d., c.i.f. Algerian, spot, 14s. 3d. to 14s. 6d.; shipment, 13s. 9d. per lb., c.i.f. There may be sellers at cheaper prices, spot and forward; the prices mentioned are for good-quality oil.

GINGERGRASS.—The source has quoted for shipment at about 6s. 4½d. per lb., c.i.f., for bulk quantities.

GRAPE-FRUIT.—Quoted unchanged, business quiet: Florida oil, 10s. 6d. to 11s. 6d. per lb. California, 10s. 6d. to 12s. per lb., as to quantity.

HO (SHIU).—A little more spot inquiry, with "improved" quality oil in drums close up to 4s. per lb., ex store. Shipment, extra quality, 3s. 9½d. per lb., c.i.f., in drums.

JUNIPER BERRY.—Small routine business reported. Quoted from 3s. 3d. to 4s. per lb., as to quality and quantity, ex store.

LAVERNER.—Spot market irregular, the price asked depending on the quality of the oil. Lavandin, 8s. to 8s. 6d. per lb., landed, for genuine oil.

LEMON.—The tone in the shipment market for new crop Sicilian hand-pressed oil is keeping fully steady, with quotations ranging from 6s. 3d. to 6s. 6d. per lb., c.i.f. The oil crop is now estimated at about 30 per cent. more than last year; previously it had been put at 50 per cent. more. Californian, distilled, regular quality, 6s. 4d. per lb., landed.

LEMONGRASS.—Shipment market is nominally unchanged at about 1s. 6½d. per lb., c.i.f.; spot, 1s. 7d. to 1s. 9d. per lb., as to quantity.

LIME.—West Indian distilled is very steady on spot at 26s. to 27s. 6d. per lb., as to quantity.

MANDARIN.—New crop oil is being quoted at attractive prices, ranging from 18s. to 19s. per lb., c.i.f.

MUSK.—A very limited supply of Tonquin pods are valued here at about 52s. 6d. per oz.

NEROLI.—Business quiet: perfumers' quality, 22s. to 25s. per oz.; other grades range from 16s. 6d. to 21s. per oz., ex store.

NUTMEG.—Small spot business, market steady: spot, American and Dutch oil, 5s. 6d. to 5s. 9d. per lb., as to quantity.

ORANGE.—There are fewer Paris offers of new crop French Guinea, January shipment, at about 2s. 9d., c.i.f. London: these offers are speculative. The only price recorded from the source is 3s. per lb., c.i.f. So far business with the source seems to have been negligible, but rather heavy orders are reported to have gone to Paris. Tanganyika bitter oil, in drums, 8s. per lb., ex store. Californian, small drums, 4s. 2½d.; tins in cases, 4s. 3½d.; single cases, 4s. 6d. per lb., ex store. Californian, hand-pressed, 5s. 6d. to 5s. 9d., duty paid; shipment, 5s. 1d. per lb., c.i.f., in bulk quantity.

PALMAROSA.—The spot market is nominal and firmer at 8s. 6d. per lb.; it is difficult to locate any bulk supplies; shipment is reported rather dearer at 6s. 9d. per lb., c.i.f.

PEPPERMINT.—Quite a good demand for the Japanese product: spot, 4s. 10d. to 5s., as to seller; near afloat, 4s. 7d., c.i.f., and just shipped, 4s. 5d., c.i.f. Some October-December declarations are awaited and the source reports some difficulty in effecting despatch. Japanese shippers quote January-March, 4s. 4d. per lb., c.i.f., with market sellers at 4s. 3d. c.i.f. The American natural oil remains dull and seemingly none too steady: quoted in drums from 2 dollars to 2 dollars 20 cents per lb., c.i.f. London.

PETITGRAIN.—Restricted spot supplies quoted steadily: cases, about 4s. 3d.; smaller packages, up to 4s. 6d. Shipment, in cases, 4s. per lb., c.i.f.

ROSEMARY.—Spanish oil is offered on spot from about 3s. 3d. to 4s. per lb., as to quality and quantity. Some French oil is quoted for shipment at 110 francs per kilog, c.i.f. London.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots on spot, 19s. per lb. Oil described as East Indian is steady at the recent slight advance at 17s. 6d. per lb., c.i.f., for bulk quantities. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

SASSAFRAS.—Genuine American oil is quoted on spot at 4s. per lb. Other grades at cheaper prices.

SPEARMINT.—Limited business, with prices for U.S.P., spot, 8s. 4d. to 8s. 6d.; shipment, 8s. per lb., c.i.f.

SPIKE.—Holders of genuine Spanish oil are keeping their prices steady at 5s. 6d. to 5s. 9d. per lb., as to quantity. Inferior oils at cheaper prices; 6s. is reported paid for a fine-quality oil on spot.

VEITVERT.—Bourbon on spot continues quiet, with sellers quoting about 20s. per lb., ex store. Java oil, for shipment, finest quality, 13s. 9d., c.i.f.; second quality, 12s. 8d. per lb., c.i.f. London.

WORMSEED.—U.S.P. quality oil continues to be quoted at 11s.; shipment, 10s. 4d. per lb., c.i.f. Market is dull.

London Drug Stocks

Stocks in London at November 30, 1937, and November 30, 1936:—

| Article | Quantity | 1937 | 1936 |
|----------------------------|----------------|---------|---------|
| Albes | ... cwt. | 87 | 180 |
| Anise (Star) | ... cwt. | 242 | 76 |
| Camphor | ... packages | 365 | 358 |
| Cardamoms | ... cwt. | 264 | 76 |
| Casgara Sagrada | ... tons | 112 | 99 |
| Cochineal | ... bags | 35 | 56 |
| Calumba Root | ... bags | 1,164 | 2 |
| Cubels | ... bags | 10 | 3 |
| Dragons Blood | ... cases | 142 | 72 |
| Galls (China and Japan) | ... cases | 140 | 580 |
| " (Turkey and Persian) | ... bags | 268 | 172 |
| Gums:— | | | |
| Acacia (all descriptions) | ... packages | 15,162 | 11,396 |
| Ammoniacum | ... packages | 62 | 27 |
| Animi | ... packages | 536 | 467 |
| Asafetida | ... cwt. | 471 | 423 |
| Benzoin | ... cwt. | 689 | 846 |
| Copal | ... packages | 12,054 | 11,396 |
| Dammar | ... packages | 6,879 | 4,722 |
| Gamboge | ... cwt. | 27 | 42 |
| Guaiaecum | ... cwt. | 23 | 104 |
| Kowrie | ... tons (net) | 258 | 117 |
| Mastic | ... packages | 49 | 27 |
| Mvrrh, East India | ... packages | 24 | 66 |
| Olibanum | ... packages | 220 | 261 |
| Sandarac | ... packages | 283 | 135 |
| Tragacanth | ... packages | 3,793 | 2,425 |
| Ipecacuanha (Matio Grosso) | ... cwt. | 159 | 140 |
| " (other sorts) | ... cwt. | 66 | 70 |
| Nux vomica | ... cwt. | 259 | Nil |
| Rhubarb and Rhapontica | ... cwt. | 342 | 216 |
| Sarsaparilla | ... cwt. | 272 | 342 |
| Senna | ... bales | 2,287 | 3,292 |
| Shellac, orange | ... cases | 132,120 | 123,581 |
| Turmeric (Bengal) | ... tons | 16 | 52 |
| " (Madras, Cochim, etc.) | ... tons | 103 | 143 |
| Waxes, Bees' | ... packages | 3,471 | 2,243 |
| " Japanese | ... packages | 393 | 407 |

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Negotiation on N.H.I. Terms

SIR,—I was cherishing the hope that the unfortunate controversy created by Mr. Parry's motion in Council was ended; but I cannot allow that egotistic, misleading and entirely inaccurate letter which appears in your last week's issue to pass unchallenged. It would appear from this letter that there is "lack of co-operation between the N.P.U. and the Society," which Mr. Parry terms a "scandal." This statement is not founded on fact, as representatives of both bodies have recently met and discussed overlapping of interests in a most cordial and friendly manner. There is not the slightest desire, on the part of either body, to interfere with the activities of the other. By the tenor of Mr. Parry's letter it would appear that he wishes to suggest dissensions between the N.P.U. and the Society, where actually none exist; the fact being that both bodies—each in its own particular sphere—are working side by side for the common weal of pharmacy.

Yours, etc.,

WILFRID W. ATKINSON,
Chairman of the N.P.U. Executive.

50 Oxford Street, Southampton.

Treatment of Rheumatism

SIR,—I am glad to be the butt of the terminological niceties of Dr. Shiel's letter to THE CHEMIST AND DRUGGIST of December 11 (p. 697), if thereby I can play my part in bringing forward what I consider to be an important new advance in our knowledge of the aetiology of rheumatism. In my first letter I stressed the significance of the work of Vorhaus, who obtained relief in 90 per cent. of 250 cases of rheumatism by the use of vitamin B₁. Dr. Shiel cannot have understood the significance of this when he writes: "Diet or medicinal treatment with vitamin A, B, B₁, B₂ and D prove useful and often curative if the primary source of invasion can be discovered." This significant advance in knowledge has been the recognition that deficiency of vitamin B₁, and vitamin B₁ only, is the primary source of invasion in many cases. Research at Oxford over the last ten years has proved that vitamin B₁ plays an essential part in the functioning of nerve. Its absence from the diet of experimental animals causes polyneuritis. Now, clinical research in this country and in America shows that human neuritis and rheumatism may also be due to its lack. Dr. Shiel is welcome to criticise my English if he will thereby help me to make it clear that an increased consumption of foods rich in vitamin B₁ will reduce the incidence of many forms of rheumatism.—Yours faithfully,

MAGNUS PYKE,
Chief Chemist, Vitamins, Ltd.

London, W.6.

The Danger of Proprieties

SIR,—To my fellow pharmacists in the United Kingdom the question of the composition of proprietary medicines is not usually a serious matter, but a few months of practical retail pharmacy in South Africa quickly convinces one that some sort of legislation is needed on this subject. In Johannesburg, for example, the majority of the prescriptions are for proprietary preparations (either entire or in broken bulk), with B.P. and B.P.C. preparations very poor runners-up. In how many cases, when dispensing a proprietary, does the pharmacist know what he is supplying or what is the maximum dose of the preparation concerned? How insistent we are that the aspiring student shall possess a sure knowledge of the dose of, say, infusion of gentian or sodium bicarbonate, yet we dispense frequently many potent preparations the composition of which we are as ignorant of as the patient himself. After all, not the least duty of a dispenser is to ensure that no overdose passes unchecked. Nor can we assume that the doctor is in any more enlightened position. A friend of mine recently received a prescription for a proprietary preparation unknown to him. The medicine was "most urgent," so he rang up the doctor to inquire if he might supply something similar for the time being. "The doctor was sorry, he had no idea as to the ingredients of the proprietary." . . . The situation is fraught with peril, and at the same time so easily placed on a safety basis that it is quite remarkable so little

has been done in this direction. I would suggest two simple regulations acceptable to all concerned: (1) All proprietary and patent medicinal preparations to have clearly stated on the label the maximum, or the average, dose; (2) alternatively, to have stated on the label the full formula of the preparation. I feel convinced that all chemists giving this matter careful thought will agree that the present state of affairs needs remedying, and speedily.—Yours truly,

CHARLES F. OXTOBY.

Johannesburg.

Christmas Showrooms

SIR,—I consider your correspondent, who relates his experiences of running a Christmas showroom (*C. & D.*, December 4, p. 662), was very fortunate in dealing with a class of customers willing to climb stairs. It is curious that the public attitude, as a general rule, towards the chemist and his business is totally different from the one the shopper shows to other retailers. People still have the impression the chemist makes hundreds per cent. profit and is a public information bureau; and they seem chary of entering his shop unless they want to make some definite purchase or to get free advice. If his door is shut, customers go away rather than turn the handle, though other shops may keep their doors closed constantly without obstruction, while two or three steps up to a pharmacy door have been known to spoil a business in a good position. For many years I have made a display of perfumes and gifts, and have acquired some local reputation for a good selection. Inside the shop, which has a fairly wide floor space, one side has been given up entirely to the Christmas goods, leaving the counter on the other side free for the usual trade. This served a double purpose, as the gift counter was in full view from the door and also attracted the attention of customers at the drug counter. I have always been satisfied with the returns resulting from this arrangement; but one year I thought, like your correspondent, I might do better if I used a separate room, so I converted a stock-room at the back of the shop into a showroom with trestle tables, and put notices in the windows and on the shop counters directing customers to the room. Whether the locality or the class of custom is different I cannot say; but in spite of invitation and persuasion to get customers to go inside, I can only describe the result as unsatisfactory.—Yours truly,

SHOP-SHOWN (14/12).

Stock Lectures

SIR,—I am afraid I cannot agree with others on the unimportance of Mr. Deacon's researches (*C. & D.*, December 11, p. 684) into the inferiority complex of the ordinary pharmacist. For a variety of reasons, but mainly (as Mr. Yeomans pointed out recently) as a result of the apathy of the chemist himself, this complex has become more or less static; and it is well that Mr. Deacon and everyone else should rub the fact well in as hard and as often as possible. A new generation of pharmacists is slowly awaking to the fact that the craft to which they have committed their fortunes is not valued as it ought to be by the general public. Parliament takes its cue, naturally, from the electorate; and there never seems to have been any strong man in pharmacy (since the late Sir William Glyn-Jones) to make even an attempt to let the world know what the art and craft of pharmacy really means. Although medical men at pharmaceutical dinners pay pretty compliments to their hosts, most of it is only lip-service, and officially medicine regards pharmacy as less than the dust. This is shown daily in a variety of ways; and the indifference of the proletariat combined with the deliberate "sniffiness" of the medical profession confirms Government departments in the opinion that we are not worth troubling about. So all credit to Mr. Deacon, Mr. Parry or anyone else who can rouse our brethren from their apathy. In my view the N.H.I. dispensing controversy which is going on at present is all to the good. It is a subject on which there is a strong feeling throughout the country, and there will be repercussions which, I venture to think, will be much to the benefit of the craft as a whole.—I am, etc.,

QUI VIVE (15/12).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

A. G. W. (10/12).—PHARMACY IN JERSEY.—The law on the practice of pharmacy and the sale of poisons in Jersey stipulates that no person may exercise the profession of pharmacist or druggist in the Island unless he has been authorised by the Royal Court. This permission is granted only to those holding the qualification of pharmaceutical chemist, or chemist and druggist, of the Pharmaceutical Society of Great Britain, of pharmaceutical chemist of the Pharmaceutical Societies of Ireland and Northern Ireland, or the diploma of pharmacist of the first or second class issued by one of the schools of pharmacy of a French university.

R. W. B. (23/11).—ASTHMA MIXTURE.—A somewhat similar mixture to your preparation can be made as follows:—

| | | | | | |
|---------------------|----|----|----|----|-----------|
| Tinct. stramon. | .. | .. | .. | .. | mv. |
| Ext. glycyrrh. liq. | .. | .. | .. | .. | mx. |
| Pot. acet. | .. | .. | .. | .. | gr. x. |
| Pot. iodid. | .. | .. | .. | .. | gr. iiss. |
| Inf. gent. co. | .. | .. | .. | .. | ad 3j. |

A. R. (10/11).—HORMONE CREAM.—The cream described under this title usually contains 1 per cent. of hormone extract. A formula for a hormone cream for massage purposes is as follows:—

| | | | | | |
|------------------------|----|----|----|----|---------------|
| Triethyl stearate | .. | .. | .. | .. | 175 gm. |
| Glycerin | .. | .. | .. | .. | 50 to 100 gm. |
| Olive or almond oil | .. | .. | .. | .. | 50 to 100 gm. |
| Female sexual hormones | .. | .. | .. | .. | 2 gm. |
| Mammary extract | .. | .. | .. | .. | 3 gm. |
| Sodium chloraseptate | .. | .. | .. | .. | 0.5 gm. |
| Perfume, a trace | | | | | |

Absorption of hormone cream is admitted to be slow, and no results are noticed until the treatment has been continuously followed for several weeks. Formulas for creams containing cholesterol and lecithin are given below:—

| I | | | | | |
|------------------------------------------|----|----|----|----|---------|
| Lanolin, anhydrous | .. | .. | .. | .. | 20 gm. |
| Stearin | .. | .. | .. | .. | 10 gm. |
| Cacao butter | .. | .. | .. | .. | 20 gm. |
| White wax | .. | .. | .. | .. | 20 gm. |
| Sweet almond oil, preserved with nipagin | .. | .. | .. | .. | 200 gm. |
| Cholesterol | .. | .. | .. | .. | 6 gm. |
| Lecithin | .. | .. | .. | .. | 12 gm. |
| Water | .. | .. | .. | .. | 80 gm. |
| Sodium benzoate | .. | .. | .. | .. | 1.5 gm. |
| Borax | .. | .. | .. | .. | 15 gm. |
| Nipagin M. | .. | .. | .. | .. | 0.8 gm. |
| II | | | | | |
| Lanolin, anhydrous | .. | .. | .. | .. | 30 gm. |
| Liquid paraffin | .. | .. | .. | .. | 30 gm. |
| White wax | .. | .. | .. | .. | 20 gm. |
| Borax | .. | .. | .. | .. | 2 gm. |
| Water | .. | .. | .. | .. | 18 gm. |
| Cholesterol | .. | .. | .. | .. | 2 gm. |

A. J. T. (14/12).—EAR PIERCING.—The instrument for this purpose is obtainable from druggists' sundries houses. In operation, it is pressed through the lobe of the ear, a piece of cork covered with cotton-wool being held behind the spot.

T. H. P. (3/12).—UNEMPLOYMENT INSURANCE CONTRIBUTIONS.—Persons cease to be insurable under the Unemployment Insurance Acts on obtaining the age of sixty-five, but contributions are payable by the employer of a person of that age or over.

H. B. C. (Holland) (20/11).—VANISHING CREAM.—The following is a representative formula:—

| | | | | | |
|----------------------------|----|----|----|----|--------|
| Stearic acid | .. | .. | .. | .. | 1 dr. |
| Strong solution of ammonia | .. | .. | .. | .. | 7 min. |
| Distilled water | .. | .. | .. | .. | 1 oz. |

Melt the stearic acid with half the water. Add the solution of ammonia to the remainder of the water, and so soon as the acid is liquefied, remove it from the source of heat and stir in all at once the ammonia solution; continue to stir until cooled down.

Much valuable information as to the manufacture and how to overcome the difficulties which are likely to be encountered is given in "Pharmaceutical Formulas," Vol. II, which has many pages devoted to the preparation of these creams and also gives hints on the perfuming of them.

W. H. L. (10/12).—LIABLE FOR DUTY.—The label would not be in order if it is intended to sell the preparation unstamped. The Board of Customs and Excise requires full disclosure of the formula, together with the words "No proprietary rights are claimed in the manufacture of this preparation." The words "invaluable for coughs, colds and whooping cough" also render the preparation dutiable.

H. M. (14-21).—SOFTENING VULCANITE.—The liquid appears to consist of a strong solution of glycerin in which is suspended a powder that seems to be calamine. A similar preparation may be prepared thus:—

| | | | | | |
|----------|----|----|----|----|-----------|
| Glycerin | .. | .. | .. | .. | ½ oz. |
| Water | .. | .. | .. | .. | ½ oz. |
| Calamine | .. | .. | .. | .. | 45-60 gr. |

The variation in colour of the calamines of commerce is reflected in the different shades it is possible to obtain with the above formula using different samples of calamine. The function of the calamine is not obvious, and a 50 per cent. glycerin solution seems to act quite well as a vulcanite softener.

M. J. F. (22/11).—MOTH SPRAYS.—The following are formulas for pyrethrum-kerosene insect sprays:—

| I | | | | | |
|---------------|----|----|----|----|---------|
| Insect powder | .. | .. | .. | .. | 8 oz. |
| Kerosene | .. | .. | .. | .. | 1 gall. |

Macerate for forty-eight hours and add:—

| | | | | | |
|---------------------------------------------|----|----|----|----|-------|
| Methyl salicylate, eucalyptus oil or safrol | .. | .. | .. | .. | 1 oz. |
|---------------------------------------------|----|----|----|----|-------|

| II | | | | | |
|----------------|----|----|----|----|-------------|
| Insect powder | .. | .. | .. | .. | 400 parts |
| Camphor | .. | .. | .. | .. | 50 parts |
| Cedarwood oil | .. | .. | .. | .. | 150 parts |
| Citronella oil | .. | .. | .. | .. | 25 parts |
| Lavender oil | .. | .. | .. | .. | 25 parts |
| Spirit | .. | .. | .. | .. | 2,000 parts |

Extract the insect powder with the spirit; strain and add the other ingredients.

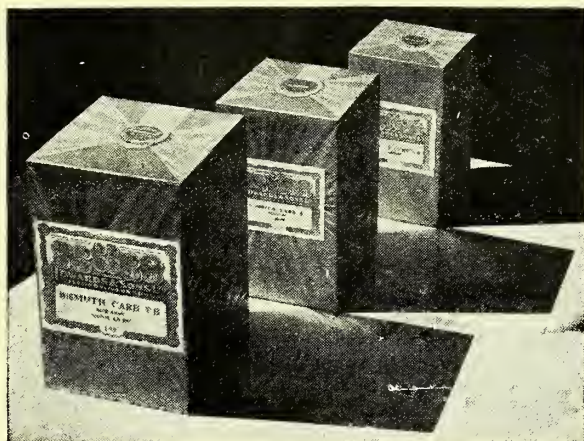
R. R. W. (23/11).—POLISHING SHELLS.—There are two processes in general use for this purpose, as follows:—(1) Marine shells are cleaned by rubbing with a rag dipped in strong hydrochloric acid till the outer dull skin is removed, washing in warm water, drying in hot sawdust, and polishing with chamois leather. Those shells which naturally have no polished surface may either be varnished or rubbed with a little tripoli powder and turpentine on chamois leather, then fine tripoli alone, and lastly with a little olive oil, bringing up the surface with the chamois as before. (2) The shells are first boiled in a strong solution of potash, then ground on wheels, sometimes through one stratum to show an underlying one, then polished with hydrochloric acid and putty powder.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," December 17, 1887

Dull Markets

The year has practically closed now so far as business is concerned, and for actual consumption as little as possible is now bought. Several articles, therefore, are apparently dull which will in all probability revive when stocktaking is over. The speculative movement is distinctly subsiding, a few articles, of course, excepted. Shellac has had a fall at the auctions, but closes steadier again. Other drysalteries are quiet. Spices mostly quiet and lower. Quicksilver dear but unsettled. Sulphate of copper and antimony have advanced, but citric acid is lower. Camphor remains steady. In quinine a large business has been done at somewhat lower rates. To-day some of the makers themselves are doing their best to depress the market. The drug sales were very uninteresting, a good many odds and ends being included in the catalogues, as is always the case at the end of the year. The principal feature of the sales is a further rise in musk.



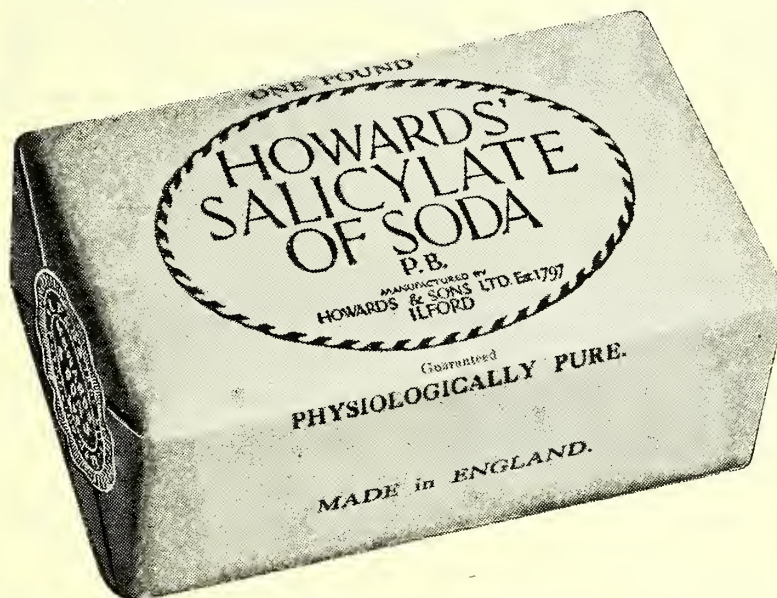
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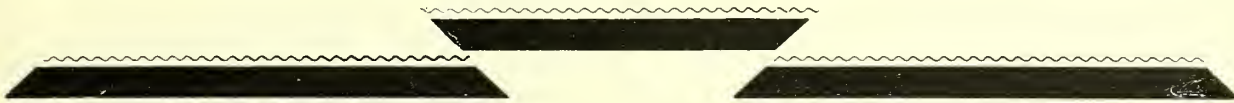
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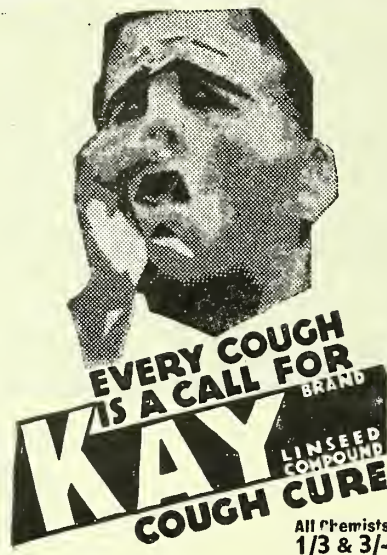
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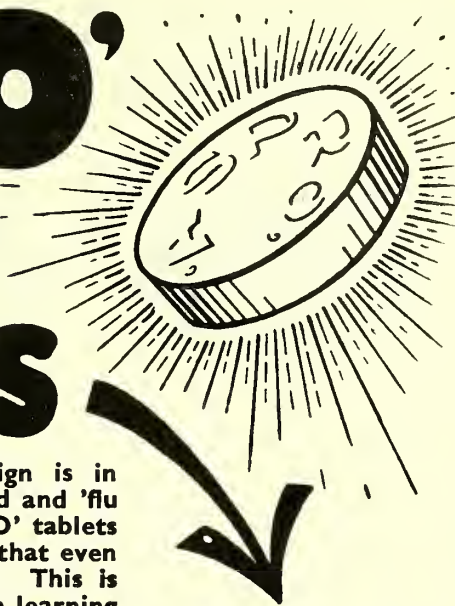
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A specially intensive 'ASPRO' advertising campaign is in progress—it will be continued right through the cold and 'flu period. As during last year the demand for 'ASPRO' tablets is rising steadily week by week. There is every sign that even last year's rocketing sales figures will be exceeded. This is significant—it means that more and more people are learning the value of 'ASPRO' service.

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**PRESS
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IN 300
PAPERS**

**BROADSHEETING
OVER HALF
THE COUNTRY**

**NEW SALES
AIDS**

**AVAIL YOURSELF OF
THE 'ASPRO' BONUS**

BONUS ON 5's & 10's
One gross order ... Bonus 1 dozen packets
Half gross order ... Bonus ½ dozen packets
Half gross of either size is the minimum order
accepted for bonus purposes.

BONUS ON 27's
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Half gross order ... Bonus 1 dozen packets
Quarter gross order Bonus ½ dozen packets
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NO BONUS ON 60's

BONUS CONDITIONS—The only conditions made are that the Chemist who buys on these terms undertakes to show 'ASPRO' advertising matter in his shop window for 14 days and sell at advertised prices. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices.

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'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

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'ASPRO'
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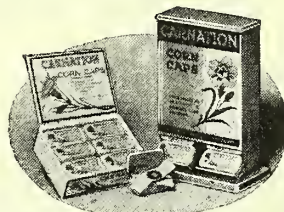
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1894

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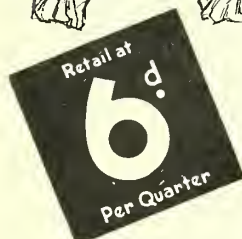
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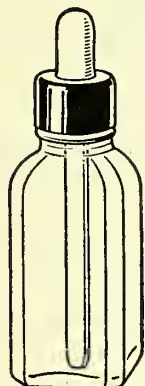
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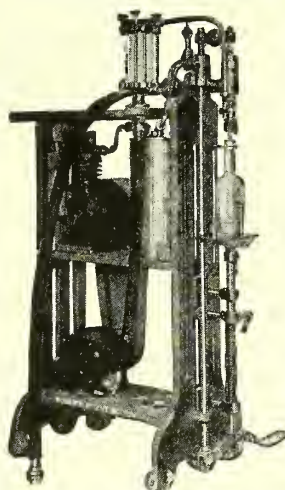
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N.-G. PESSARIES.

They embody all the latest discoveries in chemical contraception.

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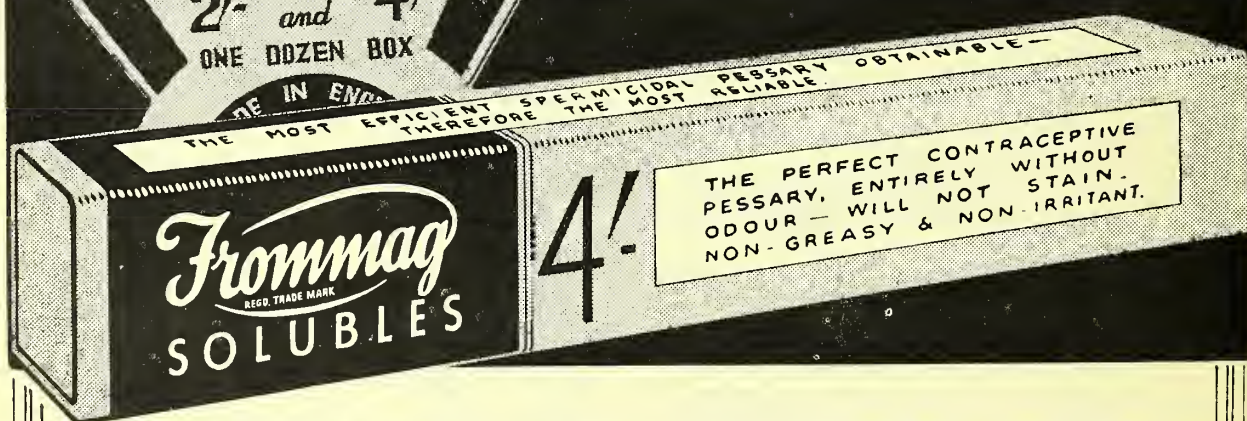
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They have a spermicidal value of more than three times that necessary to kill all sperm cells.

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They are attractively packed and profitable to handle.

They are prepared in the laboratories of Herbert Fromm.



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One Dozen pessaries in each box.

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

DECEMBER 18, 1937

28 ESSEX STREET, LONDON, W.C.2

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ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

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We can arrange for a sum up to 50% of the total purchase price to be advanced upon the purchase of any approved business, subject to investigation. Applicant must furnish references and be able to invest the remainder of the purchase price himself.

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2.—NUNHEAD (NEAR).—Old established General Retail Business making about £5 per week net profit; scope for considerable increase under younger management; nice living accommodation; rent £65 rising to £70 per annum; price £500 or offer.

3.—HAMMERSMITH (NEAR).—Good-class Retail Business with increasing turnover, last year being £1,209; stock and fixtures worth about £600; spacious living accommodation over; new lease at reasonable rental; valuation terms entertained.

4.—HARROW.—Owing to the death of Mr. W. Breingan, his two High-class Businesses in Harrow are for immediate disposal; the takings in each case are approximately £2,000 per annum, and living accommodation is available at both premises; the Executors are anxious to sell forthwith and no reasonable offer will be refused; the concerns can be bought together or separately.

5.—N.W. LONDON.—Middle-class Business with N.H.I. Dispensing; returns approach £3,000 per annum; net profit last year £702; stock and fixtures worth about £700; nice living accommodation over; reasonable purchase price.

6.—LAMBETH (NEAR).—Cash Drug Store for sale owing to extreme ill-health; net profit about 50s. per week, scope; living accommodation over; rent 25/6 per week inclusive; price £150, or valuation terms entertained.

7.—HOLBORN (NEAR).—City Business with mixed Toilet Trade and good Photographic connexion; returns over £2,000 per annum; lock-up Pharmacy; moderate rent; stock worth about £350; price for quick sale £750.

8.—WEST KENSINGTON (NEAR).—General Retail Business with good Panel connexion; net profit last year £509; lock-up shop, well-fitted and stocked; rent £91 per annum; price £850 or valuation terms entertained.

9.—HERTFORDSHIRE (FEW MILES OUT).—High-class Retail and Dispensing Business; returns last year £2,260; net profit £456;

valuable stock and fixtures; nice living accommodation over; offers invited.

10.—GLOUCESTERSHIRE.—General Retail Business established by Vendor 9 years ago; rent £60 per annum; takings last year £1,200; long lease; price required £860 all at, or valuation terms entertained.

11.—BOW (NEAR).—Millie and Working-class Business situate in marketing thoroughfare; takings last year £1,970; good profits; rent £65 per annum; price required £1,200 all at, or near offer.

12.—ESSEX COAST.—General Retail Business; increasing takings, last year £3,274; excellent profits; attractive living accommodation; very valuable long lease; total purchase price about £1,800.

13.—DEVONSHIRE.—Mixed Retail Business; takings this year over £1,700; rent only £23 per annum; good living accommodation; inclusive purchase price required £550.

14.—BURTON-ON-TRENT.—Old-established Business for sale, also property; inclusive purchase price required £3,200, but possibly a lease would be granted; takings approach £3,000 per annum; excellent profits; living accommodation.

15.—LEEDS (DEATH VACANCY).—General Retail Business; turnover last year £1,324; good profits; stock £450; fixtures £150; rent £65 per annum; inclusive purchase price £700.

16.—JERSEY.—Owing to the death of Mr. G. T. Miller, his Chemist Business is for immediate disposal; turnover approximately £1,000 per annum; deceased also held sub Post Office; stock worth £400-£450; valuable fixtures; nice living accommodation; price required £900 all at or near offer; full particulars upon application.

17.—HOVE.—Part-payment terms would be entertained for the purchase of an old-established General Retail Business which offers scope for increase; takings last year £1,194; stock worth about £300 and fixtures £200; living accommodation if required; full particulars upon application.

18.—S.E. LONDON.—General Retail Business; takings approach £2,000 per annum; new lease at rental which is almost covered by suolets; good, clean stock worth £500; purchase price about £1,150.

19.—ANDOVER.—Cash Retail Business with Panel; takings last year £734; net profit about £4 per week; stock worth about £120; inclusive purchase price required £350.

20.—LIVERPOOL.—Family Retail and Dispensing Business for sale; takings last year £1,550; net profit over £300 per annum; in many fittings; stock worth about £450; price required for fixtures and goodwill £525, S.A.V.

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Lancashire and District Representative : Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone : Great Moor 2405

Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) MIDDLESEX (NEAR TO HANWELL).—Middle- and working-class business, situated in populous growing district; increasing turnover, which for 1936-37 amounted to £2,819; gross profit £1,013; net over £650; rent £135, including self-contained flat with three bedrooms, bathroom, etc.; lease 11 years to run; price £1,600 or near offer.

(C2) NOTTING HILL.—Very old-established; situated in main shopping street, near to populous, good-class area; turnover about £2,750 per annum, with excellent scope for increase; rent, after allowing for sub-lets, £90; lease 16 years unexpired; price £1,350, but first reasonable offer accepted as immediate sale desired.

(C3) KENT (NEAR TO LONDON).—Middle-class business, with modern house, including three bedrooms, bathroom, etc.; turnover for 1936/37, £2,333; gross profit £865; net profit £556; rent £120; lease 21 years; growing district; price £1,250, or near offer.

(C4) HERTFORDSHIRE.—Pharmacy with modern flat above; situated in increasing and improving area; turnover upwards of £2,700 per annum; property can be purchased or taken on lease; price by negotiation.

(C5) SCOTLAND (NEAR BORDER).—Country business which draws upon heavily populated district; turnover (including round) upwards of £2,900 per annum; rent and rates of shop and house, £52 only; good photographic trade; goodwill asked £750 plus value of stock and fixtures, estimated at £1,500.

(C6) EDGWARE (NEAR).—Well positioned; turnover for 1936-37, £2,633; gross profit, £1,046; net, £633; certified accounts; up-to-date flat; price £1,500 all-at.

(C7) NORTH CHESHIRE.—Old-established; situated in town with population of about 125,000; under present ownership for past 30 years; turnover approximately £2,400 per annum; gross profit about 40 per cent.; good living accommodation; property can be purchased, or leased at £104 per annum; stock estimated at £1,000; fittings £350; goodwill asked £800; Proprietor retiring.

(C8) LONDON, N.W.—Main-road business, which has been very profitably run on "store" lines; turnover, 1936-37, £2,976; gross profit £990; net £702; living accommodation; owner taking up lucrative position outside pharmacy, and must sell as quickly as possible; price about £1,600, part of which can remain; £800 down and balance over an agreed period will be considered; open to offer.

(C9) SOUTHAMPTON.—Old-established, occupying very prominent position in main thoroughfare; turnover approximately £3,000 per

annum, and steadily increasing; should reach £4,000 within a short space of time; price approximately £1,350 all-at.

(C10) SOUTHGATE (NEAR).—Increasing business occupying main road position in improving district; turnover upwards of £2,650 per annum; average gross profit about 35 per cent.; genuine reason for selling; net rent of shop £115, this for the site occupied, is particularly low; price £1,800 or near offer.

(C11) CHESHIRE.—Pharmacy with valuable side-line, which yields over £3 per week net profit; turnover (in addition) upwards of £1,000; living accommodation, including three bedrooms, bathroom, etc.; stock £300; price £660 all-at.

(C12) SOUTH STAFFS.—Old-established; at present under management; turnover upwards of £1,600 p.a.; living accommodation; very reasonable rental; price £900 or near offer.

(C13) LONDON, E.—Lock-up Pharmacy, old-established; returns for 1936-37, £1,973; gross profit £688; net £413; rent £65; price asked £1,200, but first reasonable offer accepted, as early sale desired; a trial will be granted if necessary.

(C14) NOTTS.—Middle-class, cash business, with up-to-date house; turnover for last financial year, £1,820; rent £78; freehold can be purchased if desired; no near opposition; price £1,300, including stock £1,000; reasonable offer considered.

(C15) WILLESDEN GREEN.—Attractive, well-fitted Pharmacy, occupying main-road position, for sale owing to death circumstances; present returns about £25 weekly; excellent scope; net rental £91 per annum; stock and fixtures estimated at £850; £750 all-at, or offer, accepted for quick sale.

(C16) NORTH MIDLANDS (PROMINENT SPA TOWN).—Old-established, with moderate living accommodation; for sale owing to death circumstances; turnover now averaging about £1,450 per annum; rent £65; lease 14 years; price £900 all-at, including stock £500.

(C17) WILLESDEN.—Lock-up Pharmacy, well established; turnover for 1936-37, £1,063; gross profit £396; price £400 all-at (stock and fixtures only); near offer considered.

(C18) LONDON, E.C.—City Business with increasing turnover, now at the rate of about £2,200 per annum; no week-end duty; genuine reason for selling; price £750 all-at.

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CHEMIST'S Business for sale in mixed Agricultural and Mining C.A. area in Fife; established 30 years; ingoing about £900; C.A. figures. 317/524, Office of this Paper.

FOR SALE.—Old-established Chemist's business in busy S.E. London district; main street corner shop, well fitted and stocked; living accommodation; special reason for sale. Further details to genuine enquirers. Write Box 873, Reynell's, 44 Chancery Lane, W.C.2.

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DISTRIBUTING Agents, with connexion amongst Chemists, Stores, Hairdressers, etc., are wanted in all territories (excluding Wales and Yorkshire) for a firm manufacturing Iodised Bath Preparations at popular prices; please give details of connexion and territory covered. 36/6, Office of this Paper.

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- (2) Disposing of their business to manufacturers able to derive maximum return from their business, and therefore able to pay fair value,

are invited to communicate with advertisers, who have ample funds, laboratories, warehouse space and distributing organisation. Write Box A.232, Willings, 133 Moorgate, E.C.2.

MANUFACTURERS of well-known Hormone Preparations wish to co-operate with first-class Distributors with wide selling organisation in England. Applications with full particulars and references to 317/526, Office of this Paper.

TO OWNERS OF PROPRIETARIES.

AN up-to-date, progressive house of Manufacturing Chemists, with a large, fully-equipped factory in London, invites enquiries from principals for the MANUFACTURE, PACKING AND DISTRIBUTION of Proprietary Pharmaceutical Preparations. Manufacturing Dept., 64 Hatton Garden, London, E.C.1.

PARTNERSHIPS

LIVERPOOL.—Company forming established branches into separate Companies. Opportunity several Chemists, require become Director managing shop. Write Smith, 6 East Prescott Road, Liverpool, stating capital available. Remuneration. Salary and share of profits proportionate to shares held.

SITUATIONS OPEN

RETAIL (HOME)

BARKING.—Qualified Assistant (male) for light Retail and small N.H.I.; moderate salary for easy hours. 36/19, Office of this Paper.

BRISTOL.—Qualified Assistant to act as Manager. Apply, with particulars of experience, age, etc., when free and salary required, 36/23, Office of this Paper.

LONDON.—Qualified Junior required early in January for West End Dispensing business. State usual particulars. Applicants not replied to within seven days respectfully declined. 36/25, Office of this Paper.

LONDON, N.W.10.—Wanted, Unqualified Young Lady Assistant, with good Dispensing experience and accustomed to the sales of the better class Toilet Preparations. Give full particulars of experience, age and salary required to Frank Wreford, Ltd., 14 Neasden Parade, Neasden, N.W.10.

LONDON, S.E.1.—Two Assistants required, one Qualified and one Unqualified, for permanency (male or female), only capable and conscientious workers with good all-round experience and used to N.H.I. Dispensing need apply; no others will be considered. Full particulars of past experience, age, salary required, to 317/525, Office of this Paper.

SURREY.—An Unqualified Assistant (male), with good all-round experience (about 25 to 30 years of age, single), for quick Cash business; progressive berth for conscientious Salesman. Full particulars, age, height, salary required outdoors. Applicants not answered 4 days respectfully declined. 36/26, Office of this Paper.

SURREY.—Experienced Junior Assistant; permanency; state full particulars and references. 36/2, Office of this Paper.

ASSISTANT.—Young male, capable, Unqualified, required early January; good-class business, Bromley, Kent. Full particulars in first letter. 36/10, Office of this Paper.

IMPROVER or Junior Assistant required in working-class district. Full particulars, including salary required, to S. Paddon, M.P.S., 657 Attercliffe Road, Sheffield, 9.

JUNIOR Assistant, Unqualified (one just out of apprenticeship preferred), able to attend Counter, Window-dressing and little Dispensing; commence January 9. Apply, stating age, experience and salary required, to A. E. Lodder, 203 Seabourne Road, Bournemouth.

JUNIOR wanted January 3; suit one just finished apprenticeship; for good-class business. Apply, with references, photo and salary required, to Kinghorn, Wells, Norfolk.

MANAGER, Smart, Qualified (40), to take charge of an Agricultural Business; must know his job. 35/1, Office of this Paper.

QUALIFIED Assistant for middle and working class business; N.H.I. experience. Apply, stating age, salary required and experience, to J. E. Lockyer, Ltd., 244 Evelyn Street, S.E.8.

QUALIFIED Assistant, young, wanted for Family and Dispensing business. Full particulars, age, experience, salary required, etc., to 36/3, Office of this Paper.

QUALIFIED, South London, medium-class business, with National Health Dispensing and Photography; hours not excessive. Please state height, age and wages required to 36/15, Office of this Paper.

SMART, experienced Lady Assistant required immediately; Counter, Display, Stock; give full particulars of experience, age and wages required. Baker, Chemist, Windsor.

WANTED, January 3.—An Unqualified Assistant; must be a good, reliable Dispenser and Counterman; write, stating height, age and wages required, also give two references; permanency if suitable. 36/1, Office of this Paper.

WANTED.—Smart young Unqualified Lady Assistant for S.E. London, to commence December 28; must be good Dispenser and Counterhand. Apply, with "snap," stating age, experience and salary required, 36/4, Office of this Paper.

WHOLESALE

Manufacturing Chemists. An important and old-established firm of pharmaceutical chemists require a man of outstanding ability to set up a factory and direct large scale manufacture. He should be occupying a similar position at present, acquainted with semi-automatic machines, and should be a good chemist. Write fully to 316/518, Office of this Paper.

A MANUFACTURING Company, with non-competitive line for Chemists and Stores, requires first-class Salesman on part expenses and commission basis, in order to cope with increasing public demand; our Salesmen have been informed of this advertisement. Write 316/519, Office of this Paper.

A PROMINENT Manufacturing Firm requires a well-educated Representative for Medical Propaganda; must be Qualified and possess a thorough knowledge of Therapeutics; previous experience an advantage but not essential. Give full particulars of education, attainments and experience. 317/525, Office of this Paper.

LONDON.

A WELL-KNOWN Pharmaceutical House requires a young man with a practical knowledge of Wets Manufacture; one with experience gained in a Wholesale firm of repute preferred; the position offers considerable scope to a capable and intelligent man with the right type of experience. Reply, giving full details of age, education and training, to 316/517, Office of this Paper.

MEDICAL SUNDRIES, Drugs, Dressings, Stationery, Bottles, Corks, Labels, etc. Four vacancies in London. Calling upon Doctors; knowledge of Drug Trade desirable; connexion not necessary. Replies to The General Emergency Medical Supplies, 119 Newington Green Road, London, N.1.

REPRESENTATIVE on commission, carrying non-competitor, required for Yorkshire and North, excluding Lancs, for manufacturers of Pastilles, Lozenges and Tablets. 317/520, Office of this Paper.

CLEAR OUT—your Old or Damaged Stock of Photo Goods. Why keep them any longer? Turn them into CASH. **I GIVE BEST PRICES** for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along. **S. E. HACKETT, 23 July Road, Liverpool**

REPRESENTATIVE required for West and North Midlands; good knowledge of the trade and first-class references essential. Apply, with fullest possible details, to 317/527, Office of this Paper.

REQUIRED, two Medical Propaganda Representatives for South-East and South-West Coasts of England respectively; must be experienced in medical propaganda for ethical medical preparations; car an advantage. Reply, giving full details of previous experience, age, etc., and salary required, to 32/1, Office of this Paper.

SHORTHAND-TYPIST required for City Wholesale Druggists; previous experience in the trade essential. Apply by letter, giving fullest particulars and salary required, to X.Y.Z., 316/499, Office of this Paper.

TOILET Holdalls, Powder Puffs, etc., Manufacturers, require Agent on commission basis to call on West End Stores and Shippers. Full particulars in confidence to 316/509, Office of this Paper.

TOILET Holdalls, Powder Puffs, etc., Manufacturers, require Agents on commission basis to call on Wholesalers and Multiple Stores. State territory and full particulars to 316/510, Office of this Paper.

WANTED by old-established London Manufacturing Chemists and Druggists, experienced Dry Counter Hand. Please send full particulars with references to 317/522, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

A.A.—YOUNG Lady, Qualified, seeks situation in London or suburbs, with good-class pharmacy; good experience in high-class Beauty Preparations; excellent references; free after Christmas. Reply 36/21, Office of this Paper.

A.—UNQUALIFIED Assistant (39), married; thorough experienced Assistant; good Window-dresser; free shortly. Stanmore, Wharfedale Gardens, Thornton Heath, Surrey.

ASSISTANT, Unqualified (29), 13 years' general experience, desires permanency, London or suburbs. S., 71 Worplesdon Road, Guildford, Surrey.

CHEMIST, experienced, recommended; excellent Prescriber; Locum or permanency; disengaged December 28; London or provinces, anywhere. Chemist, 36 Buckley Road, Brondesbury, London, N.W.6.

EXPERIENCED Qualified Chemist, assistant or branch; disengaged; single, active and reliable. "Chemist," 308 High Street, St. Mary Cray, Kent.

JAMES LEES, Beechwood, New Cumnock, Ayrshire; experienced Qualified Locum; England or Scotland; anywhere. Terms to accommodate.

JUNIOR Assistant, young, with highest credentials, seeks position. 54/6, Office of this Paper.

LADY Assistant, 12 years' experience Drug and Toilet Counter, good Window-dresser, desires position Portsmouth district. 35/1, Office of this Paper.

LADY Dispenser (Hall) or Receptionist, desires post, anywhere; good experience Book-keeping. C., 8 Cashibury Terrace, Southend-on-Sea.

LADY REFRACTIONIST, F.B.O.A., able take charge Optical department; four years' sales Pharmacy; London. Senior, 167 Gloucester Place, N.W.1.

LIVERPOOL or District.—Available now; young Qualified man; experienced and dependable; temporary work considered. "N.R.W.," 12 Lanfranc Close, Liverpool, 16.

LOCUM, Qualified, first-class references; Dispensing and Counter, requires appointments; London or Midlands preferred. Price, 5 Shaftesbury Avenue, Chesterfield.

MANAGER seeks post or temporary part-time work; free now (age 38); Qualified; London or Middlesex preferred. 36/27, Office of this Paper.

PHARMACIST—Lady seeks post in Hospital or with Doctor; excellent experience; capable, trustworthy. Apply 35/7, Office of this Paper.

PHARMACIST (age 49), seeks post as Manager, wife assisting if desired; abstainers, thoroughly reliable and conscientious. 25/1, Office of this Paper.

PHARMACIST seeks situation. London or near: temporary or permanent; tall, healthy, abstainer (46); disengaged. 34 Santos Road, S.W.18. Phone Putney 4946.

QUALIFIED (34), requires position early January: good experience; London only; central preferred; interview by arrangement. P.C.B. 225/10, Office of this Paper.

UNQUALIFIED, capable; good general experience; tall; energetic; excellent references; some time for study; London or near. "R. M.," 2 Crowhurst Road, S.W.9.

WHOLESALE

CAPABLE, responsible gent. (32), Unqualified, single, seeks appointment with prospects, in/outdoor, with Manufacturer or Wholesaler; 15 years' trade experience. Advertiser, 36/7, Office of this Paper.

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ADVERTISER, with first-class Qualifications and complete knowledge of Manufacturing, Advertising and Selling of

TOILET AND PHARMACEUTICAL PRODUCTS, is desirous of appointment in London with progressive firm. Willing to invest approximately £2,500, subject to chartered accountant's scrutiny.

Write in first instance to Solicitors, Elles & Co., 56 Conduit Street, London, W.1.

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FOR SALE

(Articles to the value of £5-£50.)

SMALL Cash Register, "National"; prints sales on roll; gives total; perfect, but unwanted. Write W. Walker, 113 Laleham Road, Staines.

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CHEMIST FITTINGS, Second-hand, in good condition; Glass Counters from 27; Mahogany Mirror-back Wall Case, 5 ft. long, £17 10s.; Mahogany Sponge Case, 3 ft. high by 2 ft. 6 in. wide, £3 10s.; Mahogany Drug Run, 32 Drawers, Cupboard and Lockers, 12 ft. long, £14 10s.; All-glass Counter Cases from 35s. Illustrated catalogue of new modern pharmacy fittings on request. **F. MAUND & E. BERG (SHOWCASES), LTD.**, Slmpfitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

CHEMIST'S Fittings and Fixtures, high-class and almost new, comprising glass internally illuminated Counters, Glass-fronted Sliding Door Show Cases, Drug Runs with Drawers, Shelves and Lockers, etc. For sale complete or in single units. On view in Yorkshire. 35/4, Office of this Paper.

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FOR SALE.—Gardner Type Sifting and Mixing Machines; approximate capacities 60 and 100 lbs. 316/505, Office of this Paper.

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